

**System includes:**

**S4335-W - FPD (Wireless S-Vue Detector)**

The ultrasensitive FPD (Flat Panel Detector), developed based on Samsung Electronics' outstanding TFT technology, features proprietary ALDAS (Advanced Low Dose Amorphous Silicon Sensor) technology. ALDAS improves patient safety and the reliability of the diagnosis by acquiring high-resolution images with a very small amount of radiation

**Digital Detector**

Detector type	Amorphous Silicon TFT/Cesium Iodide Scintillator (CsI)
Dimensions (Active field)	17" x 14" (43cm x 35cm)
Active detector matrix	3040 x 2466 pixels
Effective area	429mm x 345mm
Pixel pitch	140µm
A/D conversion (Pixel depth)	14bits gray scale
Dynamic range	> 14000LSB
Spatial resolution	3.57 lp/mm
Detective Quantum Efficiency (DQE)	73% (0.1lp/mm) typical
Modulation Transfer Function (MTF)	84% (0.5lp/mm) typical
Battery Charging Time	6 hrs (tethered) - 3 hrs (charger)
Battery Life	160 Images for 4 hrs.
Installation	Wireless
Weight	3.1kg

**Generator Specifications:**

Power (kW):	40
kVp Max:	40-150
mA Max:	10 – 500
mAs Max:	0.1 – 500

**Tube Specifications:**

Nominal Tube Voltage (kVp):	150
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Heat Capacity (HU):	300 kHU
Anode Angle (°):	14°
Focal Spot (mm):	0.6/1.2

**Mechanics:**

Column Type:	Collapsible
Tube Reach (cm):	79.3 ~ 135.5 (Center of column to Focal spot)
Column Rotation	±315°
Focal Spot Range (cm):	55 ~ 203
Volume Rotation (°):	± 315
Tube Rotation Arm Axis (°):	±180°
Tube Rotation Arm Axis (°):	+90° ~ -30°
Footprint (W x L x H in cm):	55.5 x 125.8 x 139.6
Unit Weight (kg):	349

**CONVENIENT  
& INNOVATIVE**

**Intuitive SID Guide & S-Align**

SID (Source to Image Distance) Guide supports detailed device positioning with multiple SID settings. S-Align allows precise alignment and enhances the imaging quality by displaying the detector's angle on the THU.

**Easy Quick Positioning**

Quick Positioning allows handle-free, precise body movement by simple button clicks on THU and enables reduction of user workload.

**Quick charging and long-lasting battery**

With fast charging, GM85 powers up from 0 to 100% in only 2-4 hours. With a long-lasting battery, it gives you the power to keep going for a full day without additional charging\* (supports 220 shots and 20km of moving distance once fully charged)

**Base Battery Input:**

Type:	Li-ion Battery
Input Outlet:	Free Voltage (100-240VAC, 50/60Hz)

Charge Time (hours):

Approx. 2 ~ 4 hr (Depends on capacity of outlet)

**Detector Battery:**

Number of Batteries:

2 With Each Detector

Battery Charging Console:

One with Each System

Experience GM85's unique innovation features such as SID Guide and S-Align, enabling users to save time and optimize workflow. Extensive long tube reach (1355 mm / 53.3 in), easy quick positioning, large storage and intuitive multi-touch features also provide superior user convenience.

**Collimator Specifications:**

Type:

4-axis auto blade

Light:

LED

Auto Filter

0.1, 0.2, 0.3 mmCu

Illuminance

160 lux

Inherent Filtration

Over 1.4 mmAl @75kVp

Rotation Angle

-90 ~ 180

ETC

Measuring Tape DAP Integration\*

**Variable Filtration:**

Built-in variable filtration delivers the optimal setting for paediatric exams

Setting 1:

0mm AL

Setting 2:

1mm AL + 0.1MM Cu

Setting 3:

1mm AL + 0.2mm CU

Setting 4:

2mm AL

**SID Laser:**

Dual laser verifies 100cm, 130cm, and 180cm Source to Image Distance (SID) preset by the anatomical region

**Driving:**

Speed:	Max 5.6 Km/Hr
Slope:	Max of 7° Slope

GM85 provides advanced patient care with diagnostic confidence through leading-edge imaging functions such as SimGrid and TLE (Tube & Line Enhancement) along with S-Vue and S-Detector.

**SimGrid** produces superior image quality compared to images captured on systems without the use of a conventional grid

**TLE** - Improve clarity of tube and line in chest images with Tube & Line Enhancement feature. With a single on-screen click, the

**Dose Area Product (DAP):**

DAP measures the amount of radiation delivered with each exposure and can be interfaced to PACS to record the dose of each patient.

Chamber Voltage (Volts):	300
Stabilization Time (Min):	5

### **Always caring for our children**

Optimized 6-stage weight dependent imaging enables pediatric patients to avoid unnecessary x-ray exposure using precise dose management, resulting in superior image quality. Child-friendly design stimulates pleasant imagination and provides a playful environment for both parents and children.

### **On-Site Applications:**

2.5 Days of On-Site Applications Training