

SAMSUNG SMART
DIGITAL RADIOGRAPHY

XGEO GR40CW

FUNDAMENTALLY DIGITAL



XGEO GR40CW

Digital Detector

Innovative wireless detector , XGEO GR40CW offers conversion of Analog X-ray / CR into Digital Radiography. Features include wireless convenience, light and compact design, and high quality image preview. The XGEO GR40CW provides exceptional image quality while minimizing dose.

Wireless Portable Detector (S4335-W)

Detector type	Amorphous Silicon TFT / Cesium Iodide scintillator (Csl)
Dimensions	384mm x 460mm x 15mm (W x D x H)
Active detector matrix	2,466 x 3,040 pixels (W x D)
Effective area	345mm x 426mm (W x D)
Pixel pitch	140 μm
A/D conversion	14 bits
Spatial resolution	3.57 lp/mm
Detective Quantum Efficiency (DQE)	73% (0.1 lp/mm, Typical)
Modulation Transfer Function (MTF)	84% (0.5 lp/mm, Typical)
Installation	Wireless / Tethered
Weight	3.1 kg (Approx.)
Max.load capacity	150 kg for uniform load, 100 kg for local load (40 mm diameter disk at the center)
Battery charging time	6 hrs (tethered), 3 hrs (battery charger)
Battery life	160 images for 4 hrs.

CIB

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

Power Supply Box

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

Battery Recharger

Dimension	282mm x 207mm x 21mm (W x D x H)
Weight	0.5 kg

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Imaging Workstation- XGEO Station

Hardware	
- CPU	Intel® Xeon® Processor (3.60GHz, 10MB)
- RAM	8GB
- HDD	1TB
- Operating system	Windows 7 Pro®
- Monitor*	QHD 27" LCD Medical Monitor (2560 × 1440, DICOM) FHD 21" LCD Monitor (1920 × 1080)
* Option	
- CD/DVD recorder	For digital image storage on CD/DVD
Software	
- Image acquisition times**	S4335-W (Tethered Mode) : Preview 2.3 sec, Final image 7.0 sec S4335-W (Wireless Mode*) : Preview 2.3 sec, Final image 7.8 sec
* It depends on air condition	
** Be able to changed according to the image processing parameters	
- AED Function Cycle time	10sec (Tethered, Wireless Mode)
- Post processing	S-View
- 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, Turkies, Finnish

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 Management 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

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