

XGEO GF50

Floor-Mounted Digital X-ray with Wireless digital detector



XGEO GF50 Product Specifications		
Floor-mounted Tube Stand		
	Floor-Mounted Type	Floor-Ceiling Type
Translation X(Longitudinal) (mm)	2,100mm	2,500mm
Translation Y(Lateral) (mm)	220mm	220mm
Translation Z(Vertical) (mm)	1,330mm	1,330mm
Translation Method	Manual	Manual
Arm Rotation: Movement (deg)	±90°	±90°
Arm Rotation Method	Manual	Manual
Tube Rotation: Movement (deg)	±135°	±135°
Tube Rotation Method	Manual	Manual
THU Display Type	LCD	LCD
THU Display Size (inch)	7"	7"
Tube Min. Height	440mm	430mm
Max. Height	1770mm	1760mm
X-ray Tube Assembly		
Anode Heat Storage Capacity (kHU)	300 kHU (Toshiba, E7252X)	150 kHU (Toshiba, E7843X)
Maximum Voltage (kV)	150 kV	125 kV
Focal Spot Size (mm)	0.6/1.2 mm	0.6/1.2 mm
Target Material	Rhenium-Tungsten faced Molybdenum	Rhenium-Tungsten faced Molybdenum
Max. Heat dissipation rate	475W(667 HU/s)	475W(667 HU/s)
	200W(16 kHU/Min) @ Without Air-circulator	180W(15 kHU/Min) @ Without Air-circulator
High Voltage Generator		
High Frequency	30kHz	30kHz
kW Range	52 kW	40 kW
kVp Range	40~150 kVp	40~125 kVp
mA Range	10~640 mA	10~500 mA
Line Voltage Range	380/400VAC, 3-phase, 50/60Hz	230VAC, Single-phase, 50/60Hz
Max. Output	640mA @81kV 500mA @104kV 400mA @136kV 320mA @150kV	500mA @80kV 400mA @100kV 320mA @125kV
Time range	0.002 to 10sec	0.002 to 10sec
Digital Detector		
(With its advanced technology, Samsung's TFT-based flat panel detectors delivers high resolution image quality, immediate results and patient safety. Our compact and light detector improves work efficiency and user convenience)		
Wireless Detector		
Type (Material , Moveability)	Amorphous Silicon TFT / Cesium Iodide scintillator (CsI)	
Detector Application	Stand / Table shared	
Detector Size (cm)	430mm X 350 mm (17" x14")	
Effective area	423mm×351mm (2820×2340pixels)	

Active Matrix (Pixels)	2834 X 2300 pixels	
Pixel Size (um)	150μm	
A/D Conversion Gray Scale (bits)	14 Bits	
DQE	65% (0.1lp/mm)	
Spatial resolution	3.3lp/mm	
Modulation Transfer Function (MTF)	60% (1lp/mm) @ RQA5	
Weight	3.1~3.3 kg	
Collimator		
Control Type	Manual	
Lamp Brightness (Lux)	> 160 lux	
External Filter Rail	Yes	
Scatter Radiation Grid		
Patient table	215lp, 100/130/180, Ratio 10:1, Removable,	
Wall stand	215lp, 100/130/180, Ratio 10:1, Removable,	
*Additional grid is available as a accessory option		
Patient Table		
Table Type	6 Ways	4 ways
Table Top Dimensions (LxW, mm)	2,200mm x 810mm	2,200 mm x 750 mm
Detector Longitudinal Travel (mm)	310 mm	310 mm
Detector Longitudinal Travel Method	Manual	Manual
Longitudinal Movement Range (Left&Right, mm)	± 500 mm	± 500 mm
Transverse Movement Range (Front&Rear, mm)	± 125 mm	± 125 mm
Vertical Movement Range (Floor to tabletop, mm)	285mm (565mm ~ 850mm)	Table height : 660mm
Max. Patient Weight (kg)	250 kg	250 kg
Auto tracking	Longitudinal tracking of detector with longitudinal travel and rotation of tube	
Wall Stand		
Up/Down Range (mm)	1,350mm (420~1770 mm, floor to focus distance)	
Up/Down Method	Manual	
Detail Request	130 or 180	
Automatic Exposure Control (AEC)*		
*Option		
Dose Area Product (DAP)*		
(DAP provides patient level dose estimates and recommended exposure)		
*Option		
Imaging Workstation - XGEO Station		
Hardware		
- CPU	Intel® Core™ i5 Quad-Cores Processor (3.10GHz, 1333MHz, 6MB)	
- RAM	4GB	
- HDD	1TB	
- Image Storage	60,600 images (Image size : 13.2 MB/ 1 image)	
- Operating system	Windows 7 Pro®	
- Monitor	Full HD 21" LCD Monitor (1920×1080)	
- CD/DVD recorder	For digital image storage on CD/DVD	
Software		
- Preview	< 5sec	
- Final Image Display	< 10sec	
- 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) match X-ray conditions	Image processing parameters, Marker etc	
	158 protocols	
- Multi-language	English, French, German, Italian, Spanish,Russian, Simplified Chinese, Portuguese, Turkish, Finnish	
Network Specifications		
DICOM functions	Verify if service is available	
- DICOM Verification	Interface with HIS / RIS with auto refresh option	
- DICOM Modality worklist	Send the status of exams to HIS / RIS	
- DICOM MPPS	Send Image (DX or CR IOD) and GSPS to PACS	
- DICOM Storage	Send storage commit message to PACS	
- DICOM Storage commitment	Support DICOM printers	
- DICOM Grayscale print	Query and retrieve DX and CR images from PACS	
- DICOM Query / Retrieve	Send overlay information along with the image	
- DICOM GSPS	Patient images export to DVD/CD	
- DICOM Media exchange (DICOM DIR)		
Remote Maintenance System (RMS)*		
(The remote maintenance system analyses performance and emerging technical issues)		
Real-time use information	Rounds of filming, distribution of use, operating ration new, re-filming rate and accumulated radiation dose.	
Remote access	Real-time monitoring system enables quick responses to problematic situations. Remote assistant service allows auto-diagnosis and remote repair.	
*Option		
Installation Data		
(The entire system is powered via a single line voltage connection)		
Power connection	3-phase, 380/400VAC, 50/60Hz	1-phase, 230VAC, 50/60Hz
Power rating	140kVA 5A(Nominal)	140kVA / 115kVA 5A(Nominal) / 5A(Nominal)

	220A(Momentary)	220A(Momentary) /190A(Momentary)
Wall stand	Dimension 1,927(H) x 738(W) x51 0(D) mm / 120kg(264lbs)	
Patient table	4Way 2,200(W) x 750(D) x 660 mm / 150kg(330lbs)	6Way Max. 2200(W) x 810(D) x 850(H) mm / 260kg(573lbs)
Generator cabinet	Dimension 620(W) x 405(D) x 652(H) mm / 100kg	
Examination room	Floor-Mounted Type 4500 x 3000 mm Minmum Ceiling Height : 2200mm	Floor Ceiling Type 4500 x 3000 mm Minmum Ceiling Height : 2300mm Maximum Ceiling Height : 2800mm
Tube Stand (Floor-Mounted Type/Floor-Ceiling Type)	Floor-Mounted Type 2,075(H) x 3,006(W) x 1,201(D) mm / 240kg(529lbs)	Floor Ceiling Type 2,064(H) x 3,550(W) x 1201(D) mm / 180kg(397lbs)
Imaging system	Storage / Transport - Temperature range : -10~+70°C - Humidity range : 5~95% - Pressure range : 50~110 kPa Operating - Temperature range : +10~+40°C - Humidity range : 30~75% - Pressure range : 80~106kPa	
Accessories Option		
	Detector Holder (Lateral) Grid Storage Patient Hand Grip (tabletop) Patient Hand Grip (wall stand - chest) Patient Hand Grip (wall stand - overhead) Compression Belt Barcode scanner	<-- 기본장착 <-- 기본장착
Room Considerations		

Typical room layout



