



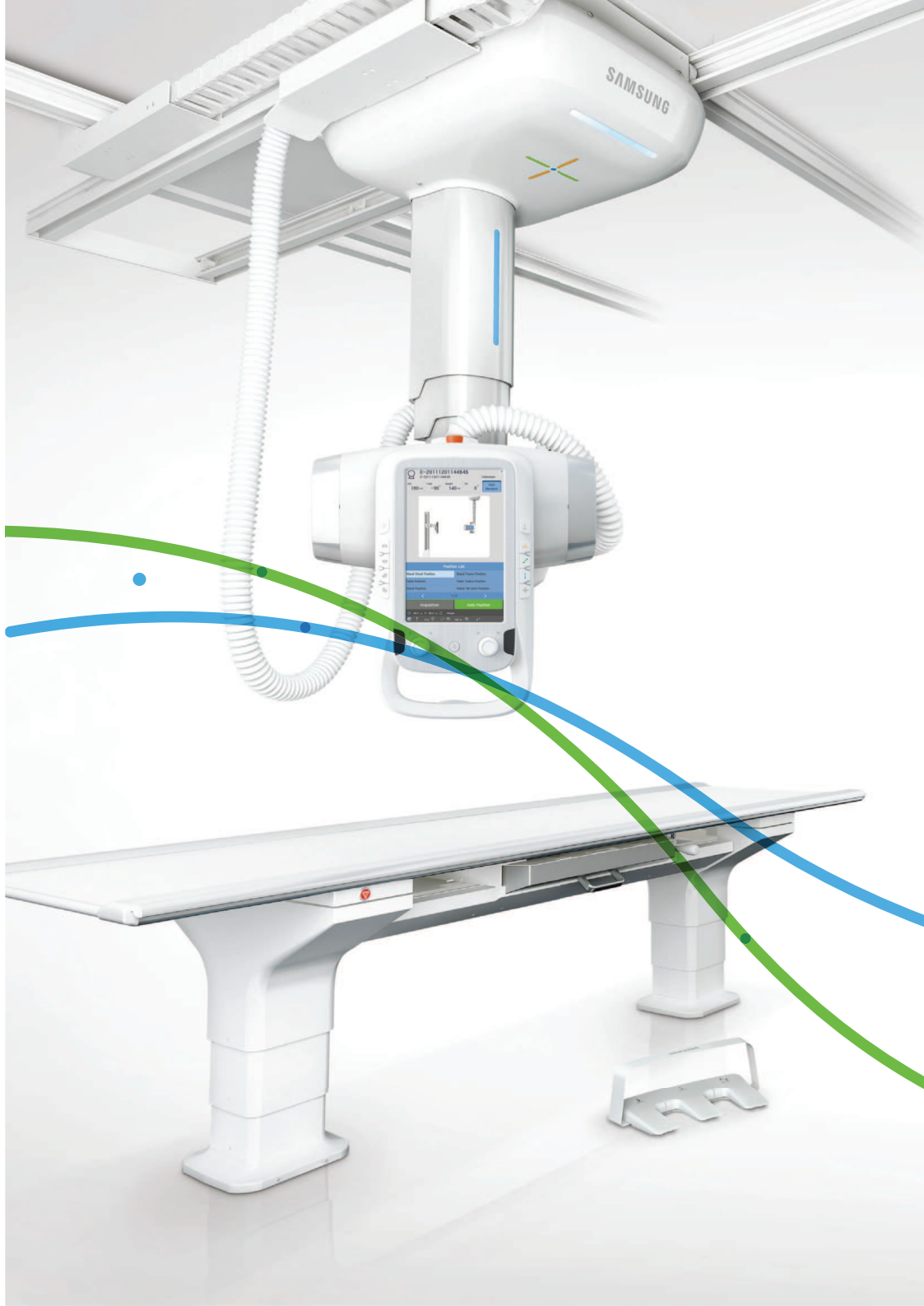
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Ver.1 / January 2012

SAMSUNG SMART
DIGITAL RADIOGRAPHY

XGEO GC80

AN INNOVATIVE & CUTTING-EDGE
DIGITAL RADIOGRAPHY SYSTEM





SMART DIGITAL RADIOGRAPHY SYSTEM

XGEO GC80

The XGEO GC80 is the new flagship product from Samsung Electronics. It delivers high-quality DR performance along with a simplified workflow, to maximize user experience. The XGEO GC80 offers you the best diagnostic solution, while increasing your throughput and improving your workplace.



XGEO GC80 won an
IF Product Design Gold Award 2012.



A BETTER DR EXPERIENCE

Robust FPD



Immediate Diagnostic Results



Smart Dual



Smart Stitching



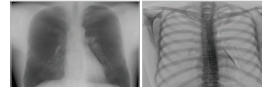
Adaptive Local Contrast Stretching (ALCOS)



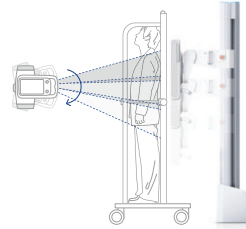
Smart technology guarantees diagnostic confidence

Immediate Diagnostic Results
Save time, and increase throughput and productivity.

Smart Dual
This can improve diagnosis accuracy. It identifies the composition of bones and tissues in the body by using two energy beams with differing X-ray levels.



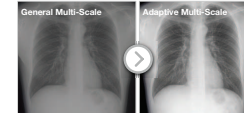
Smart Stitching
The X-ray tube and the detector move automatically when a full body image is being captured. It captures 2 or more images consecutively and then stitches the images into one. The Smart Stitching function can be operated using in two different methods; Tube Angle and Collimator Control.



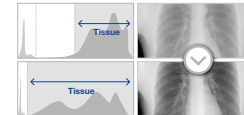
Premium imaging quality at high speed

Adaptive Local Contrast Stretching (ALCOS)
The XGEO GC80 delivers high-resolution images using an automatic, customizable post image process, which automatically determines optimum image contrast and edge sharpness.

01. Adaptive Multi-Scale Processing
The multi frequency level can be controlled variably depending on the parts or tissues being imaged. A declining phenomenon of frequency decomposition at lower level can be prevented by the funnel structure.



02. Region-of-Interest Based Image Enhancement
Contrast and resolution of detailed images of tissues can be improved. The contrast and sharpness of the image can be improved according to the part being imaged and its characteristics.



03. De-noising Filter
Selected noise can be eliminated by the noise filter and edge modeling without losing original data. The sharpness and resolution of bones and tissues can be maintained.

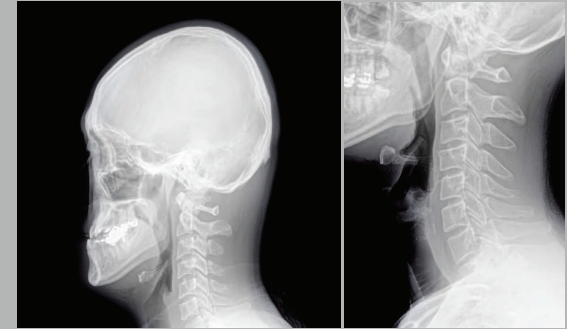
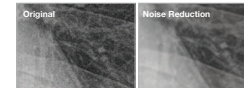


IMAGE GALLERY



Our advanced technology promises you the best X-ray experience

Robust FPD
 With its advanced technology and expertise in TFT design, Samsung is committed to developing TFT-based flat panel detectors with built-in ALDAS, delivering maximized image quality, immediate results, and diverse applications. Even with dose reduction, the XGEO GC80 still guarantees accurate images and provides diagnostic confidence, which ultimately leads to the health and safety of patients. Samsung's compact and light detector improves work efficiency, user convenience, and patient safety.
*ALDAS: Advanced Low Dose Amorphous silicon Sensor



SDX-4386CP
 14"x 17" Cal portable (for table)

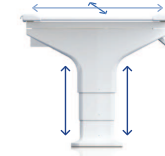


SDX-4343CS
 17"x 17" Cal (for wall stand)



XGEO GC80 guarantees satisfaction through rapid workflow and functional design

Flexible 6-way Table
 The flexible 6-way Table can endure heavy weight. Thin table legs make the best use of fixed space, and the outstanding traffic line will improve workflow.



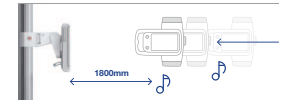
Ergonomic THU (Tube Head Unit)
 Handles, buttons, jog, and touch are all in one layer. The THU integrates a 12-inch wide touch screen to increase user convenience and procedure optimization.



Intuitive GUI (Graphic User Interface)
 A simple and intuitive GUI design maximizes user experience by applying a consistent UI design to both the THU and the workstation.



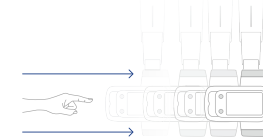
Useful AUI (Audio User Interface)
 Different sounds and colors are assigned to each movement of the tube. Applying AUI to each movement helps users easily figure out the location of the THU while keeping patients under observation.



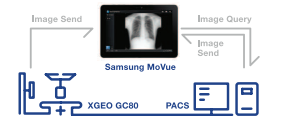
Wireless Foot Switch
 A foot switch equipped with wired/wireless (Zigbee) technology improves user convenience by enabling users to use it however they feel comfortable.



Soft Handling
 Users can easily operate the THU with its soft handling technology, even without a side-handle. Low-level noise and easy handling technology enable users to operate the THU with low physical pressure. In addition, the overall workflow shall be improved.



Samsung MoVue (Option)
 We provide the portable Samsung MoVue to carry images and interact with patients more efficiently. It is applicable to medical imaging such as Ultrasound (SD), CT, and MRI. Samsung MoVue software is provided for Galaxy Tab to maximize diagnosis efficiency. + PACS + DICOM 3.0 compatible



A SAFER DR EXPERIENCE

Collision Avoidance System



Collimator with Separate Blade Control



DAP (Dose Area Product)



AEC (Auto Exposure Control)



Remote Control System



S-Plasma Ion



Safety is our primary concern

Collision Avoidance System
6 collision avoidance sensors detect movement to help control operation.

Collimator with Separate Blade Control
Flexible and accurate function reduces radiation dose and improves functions.

DAP (Dose Area Product)
By measuring the amount of X-ray being used by the collimator, users can measure the dosimetry of patients being examined. DAP information can also be delivered to PACS and effectively managed.

AEC (Auto Exposure Control)
The AEC function prevents excessive exposure to X-rays and provides patients the best image quality possible.

Samsung XGEO GC80

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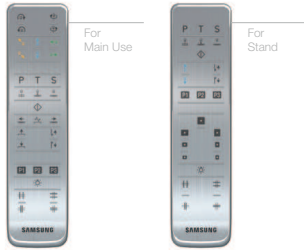
SMART AND EFFECTIVE DESIGN IMPROVES USER CONVENIENCE

Flexible FPD

The FPD function enables users to take images at any position without a table by enabling tilting angles at -20° ~ $+90^{\circ}$.

Remote Control System for Optimal Working Conditions

This provides comfortable imaging conditions for the user. The user can use the main remote controller to control all the functions. Specific positions for the tube, table, and stand can be set using three programmable keys.



S-Plasma ion for Patient Comfort

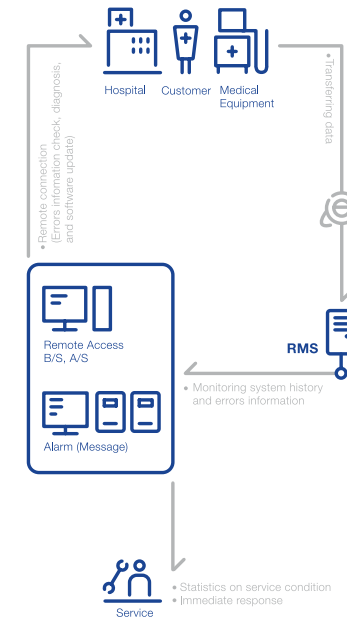
This guarantees sanitary examination conditions to patients by applying Samsung's exclusive S-Plasma ion technology.



A PROACTIVE MONITORING SYSTEM

The remote monitoring system analyses performance and emerging technical issues.

RMS (Real-time Monitoring System) Management System

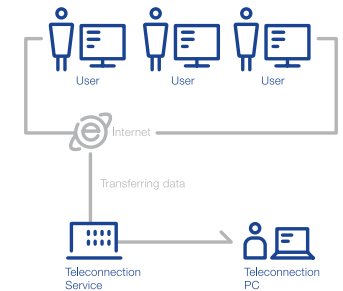


Real-time Monitoring System

This enables the continuous monitoring of error information, auto-diagnosis information, and software version information.

Remote Access

- Auto-diagnosis and remote repair services are provided through remote access assistance.
- Real-time monitoring system respond immediately to problematic situations.
- Remote assistant services respond immediately when problems occur.
- Ping test checks whether the detector is connected normally.



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