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# Рентгенографический аппарат XGEO GC80

XGEO GC80

**XGEO GC80, incorporating Samsung's own know-how and technology, reduces examination time for diagnoses and upgrades your hospital**


product design award 2012 gold

INTERNATIONAL DESIGN EXCELLENCE AWARDS '12 GOLD

# FPD (Flat Panel 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.

The compact, light-weighted, and portable detector will provide a better medical environment by improving user convenience and the efficiency of work.

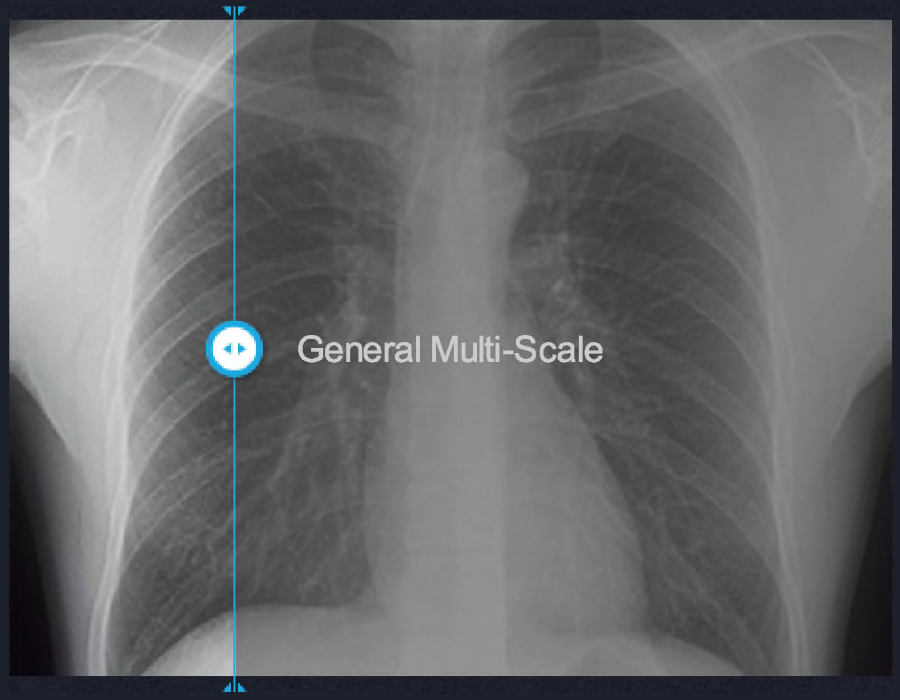
SDX-4343CS

SDX-4336CP

## Outstanding Post Image Processing Technology ALCOS (Adaptive Local COntrast Stretching)

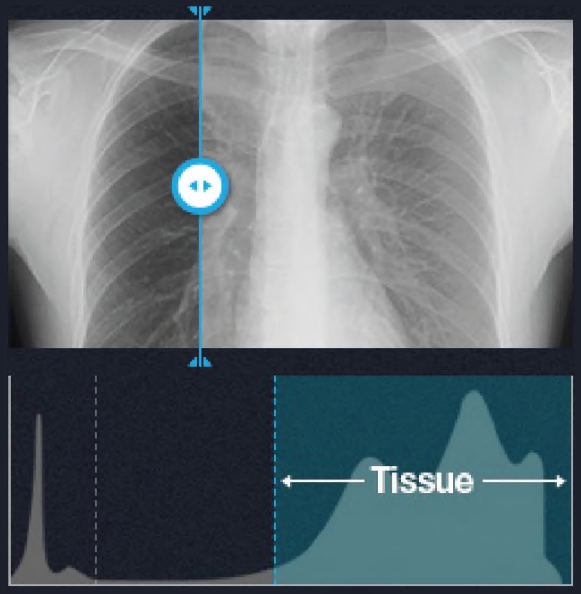
ALCOS is an outstanding post image processing technology that automatically determines suitable

image conditions depending on the target body parts and tissues. This proprietary technology provides qualified images for diagnoses by applying high resolution image contrast and edge sharpness enhancement functions.
Users can acquire more accurate imaging data at a faster speed, which ultimately leads to a highly productive medical environment.



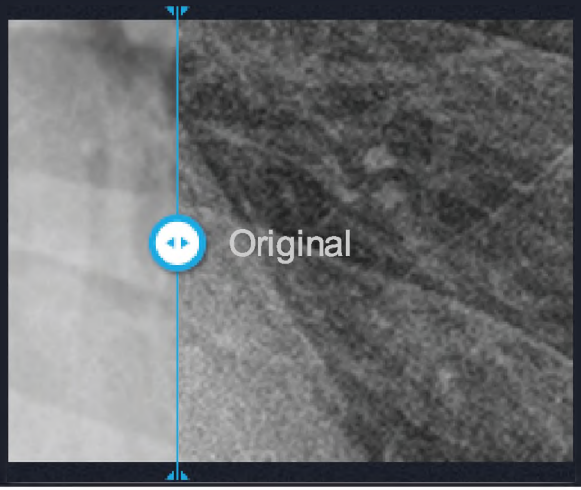

## 1. Adaptive Multi-Scale Processing

Adaptive Multi-Scale Processing adjusts multiple frequency levels depending on the target body parts or tissues. Using a funnel structure, it prevents frequency breakdown performance from dropping in lower levels and maintains highly accurate images.




## 2. Region-of-Interest Based Image Enhancement

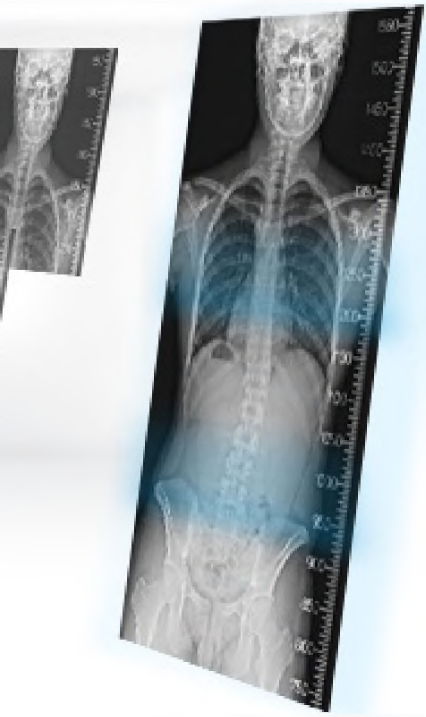
Region-of-Interest Based Image Enhancement improves the contrast and resolution of the tissue images according to the scanned region and its characteristics.




## 3. De-noising Filter

Noise can be partially removed while preserving raw data by using noise filters and edge modeling. Even when the noise is removed, the clarity and resolution of bones and tissues is not lost.


Detector



# Smart Stitching

Smart Stitching is a function that automatically puts and connects several images together to show an intact body part image that is bigger than the total area of the FPD. It quickly provides the user with one seamless image without requiring any additional work to adjust stitching lines or overlapping regions.

# Soft Handling


Thanks to Samsung's humanoid robot technologies, the user can easily adjust the THU (Tube Head Unit) using only one hand. This leads to better convenience and workflow.

# Full Automation


**Auto positioning**
Auto Positioning adjusts the THU and the table or wall stand to frequently used positions by the touch of a button, allowing the user to focus on scanning images and providing care to the patient.

**Auto tracking**
The detector is synchronized with the movement of the THU, and the THU is synchronized with the movement of the detector. This provides convenient working environment since it prevents additional adjustments in the shooting process.

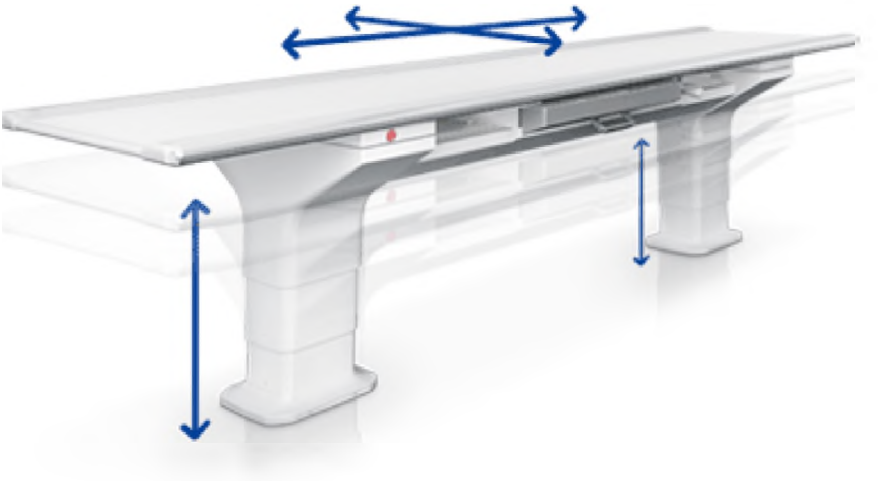
**Auto sync**
The THU is synchronized with the movement of the detector to provide more convenient scanning.

**Auto park**
When the scanner is not in use, it is automatically parked in a safe position, preventing possible damages to the equipment or patient injuries from accidental impact.

# Positioning Help

The visual guide provides various scanning positions to help the user acquire images easily.

# 6 way Table



The 6-way Table's location can be adjusted in six directions, along the x, y and z axes, to accommodate the various physical attributes of patients and situations. The table is designed to move with great flexibility in any of the six directions to help patients who are immobile or who have severe injuries to position themselves easily for a scan.

# Intuitive GUI & AUI


The integrated UI (User Interface) used in the THU (Tube Head Unit) and simple and intuitive GUI (Graphical User Interface) makes it easier to use and understand the equipment, providing high levels of ease and convenience. Various elements of AUI (Audio User Interface), corresponding with the THU's movement, provide an intuitive user experience. In addition the XGEO GC80 is designed in a refined and elegant manner.

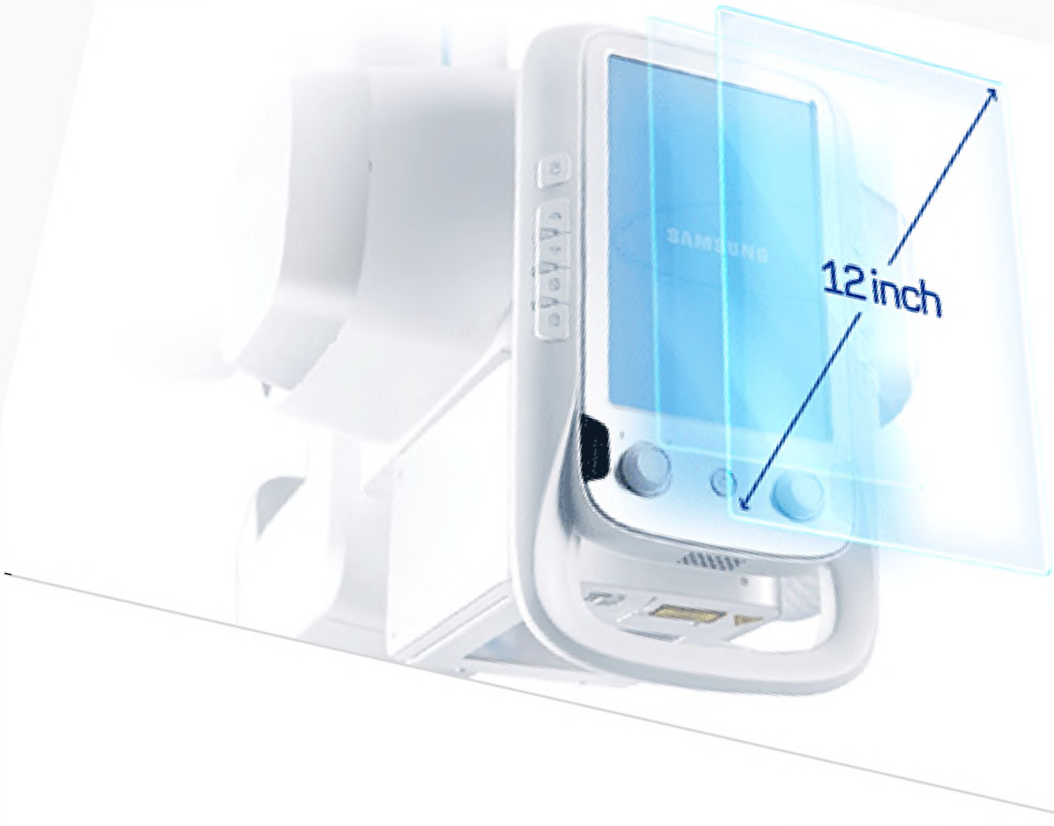
# Remote Control System


### Remote Controller

Most functions of the equipment can be controlled by a remote control, which allows the user to work with the scanner more conveniently without going back and forth between the scanning room and the control room.

### Wireless Foot Switch

The wireless foot switch prevents patients or operators from accidentally tripping over the foot switch cable and allows the operator to adjust the table position from anywhere.

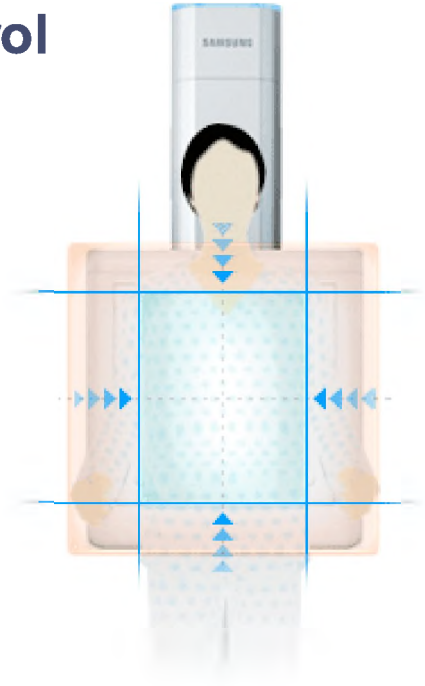

12 inch

# THU Touch Screen

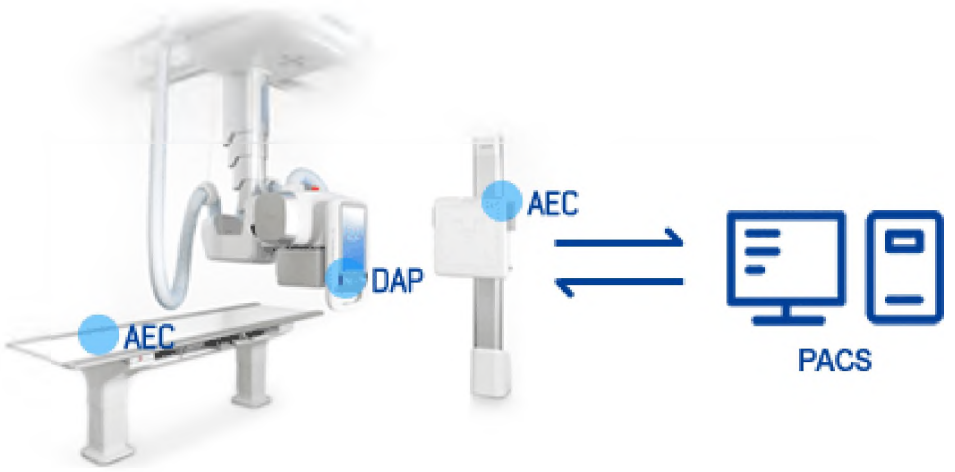
The large 12 inch touch screen on the THU enhances the usability by quickly displaying the captured image and providing easy to use GUI.

# Individual Blade Control (4-way Control Device)

When scanning an area that is smaller than the area of the FPD, the individual blade control moves the four axes of the area to lower unnecessary radiation exposure. By adjusting the area, the amount of exposed X-ray radiation dosage is minimized. This function is especially effective when scanning the chests of children.

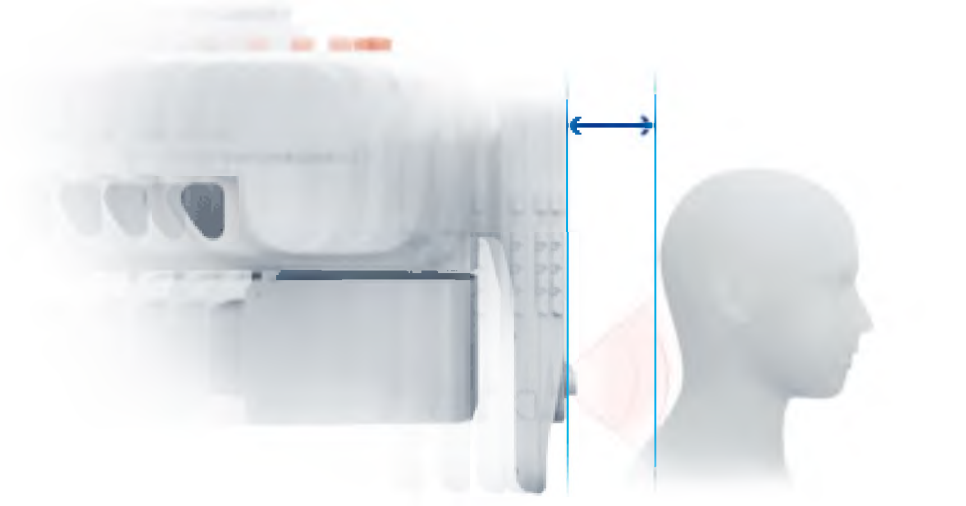


# AEC & DAP




The AEC (Automatic Exposure Control) function controls the X-ray dosage to prevent the patient from being exposed to unnecessary radiation. The DAP sensor of the collimator shows the X-ray dosage for the patient and the operator can manage the dosage effectively by utilizing the DAP information sent to the PACS.

# Anti-collision Sensor



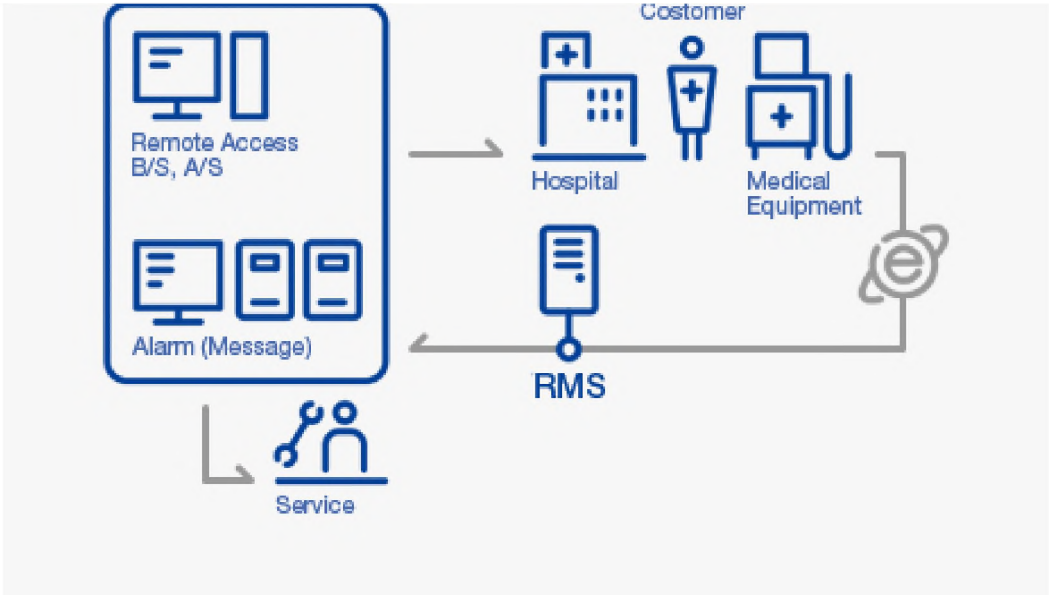
The THU has 6 anti-collision sensors that sense objects and people's movement to prevent the equipment from colliding with users or patients.

## Samsung MoVue™ (optional)

Samsung MoVue™ is a digital convergence device that transmits diagnosis imaging from X-rays and PACSs to be displayed on a Galaxy Tab. It allows the users to check the diagnosis images and communicate using a Galaxy Tab mobile device anywhere in the hospital, creating a smart and highly efficient medical environment.

## RMS (Remote Management System)

Samsung Medical Equipment provides a customized service that enables users to manage the status of equipment, through real-time monitoring of any problems that occur, using the RMS (Remote Management System).
Samsung Medical Equipment also provides remote repair services upon request through remote access assistance.



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