

ECORAY

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 **HORIZONMEDICA.COM**
PT. HORIZON MULTI TEKNIENDO

www.ecoray.kr
www.ecoviewmedical.com

ECOVIEW9 / ECOVIEW9 PLUS

Digital Radiographic System

 **HORIZONMEDICA.COM**
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ECORAY

Ergonomic design
Comfortability at operation
Optimized performance
Reliable features and functions
Affordable options
Yearlong durability



With the new technologies of flat panel detectors, versatile detector configuration is possible.



Its size is almost similar as conventional equipments and there is no need for extending or remodel the x-ray room environment.



With its compact and ergonomic design, it is able to fit in limited installation sites.



The flexible design for multifunctional use.

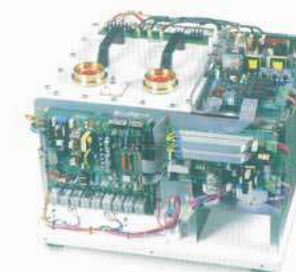
ECORAY HF Generators

We have power to generate...

ECORAY provides various type of generator solutions for your radiographic devices.

25 years of HF generator career in EcoRay brings steady and durable performance in your rad room.

High Frequency Generators



40kW



50kW



65kW / 80kW
(Max. 300kHz Frequency)

Customized HFG Specifications

Power	40kW	50kW		65kW	80kW
Max mA/kV	500mA/125kV	630mA/150kV	800mA/150kV	800mA/150kV	1,000mA/150kV
Max rating	500mA @ 80kV	630mA @ 75kV	800mA @ 62kV	800mA @ 80kV	1,000mA @ 80kV
mAs Range	0.1-500mAs			0.1- 630mAs	0.1-1,000mAs
Exposure time	0.001-6.3 seconds (81 steps)				
Line Voltage	220 VAC, 50/60Hz, Single phase PSU option (capacitor bank)	380VAC, 50/60Hz, Three phase			
Automatic line compensation	± 15%	± 10%			
Applicable Tube	1.0 / 2.0 Focal Spot, 140 kHU	0.6 / 1.2 Focal Spot, 300 kHU / 400kHU			
APR	288 APR standard (Anatomical programmable Max. 2370)				

* In case detailed product data is required, please contact EcoRay sales dept.

OP Console



LCD op console



Touch screen LCD op console

- Type : Microprocessor control & Digital display
- Indication meter : kV, mA, mAs, msec, DAP value
- Anatomical mode (APR)
- Applicable Generator : 40/50/65/80kW
- Dimensions : 430 x 330 x 100mm
- Weight : 6kg (approx.)

Optional Items

ECORAY offers valuable solutions through extra functions that support wide range of your examinations.

Ceiling Suspended Tube Stand



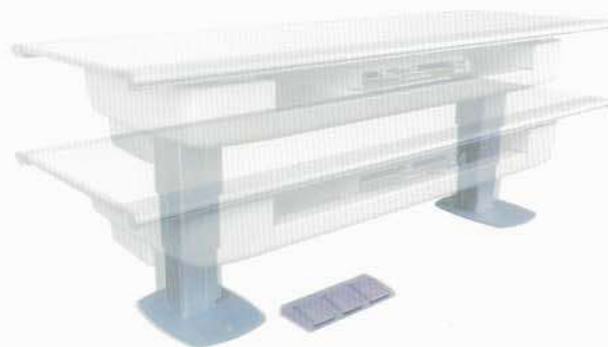
- Covering entire range of rad room.
- Auto tracking between Bucky & Tube (Up-Down motorized)
- Tube rotation : $\pm 180^\circ$

Tilting Bucky Device



- Tilting function : $-20^\circ \sim +90^\circ$

Elevating Bucky Table

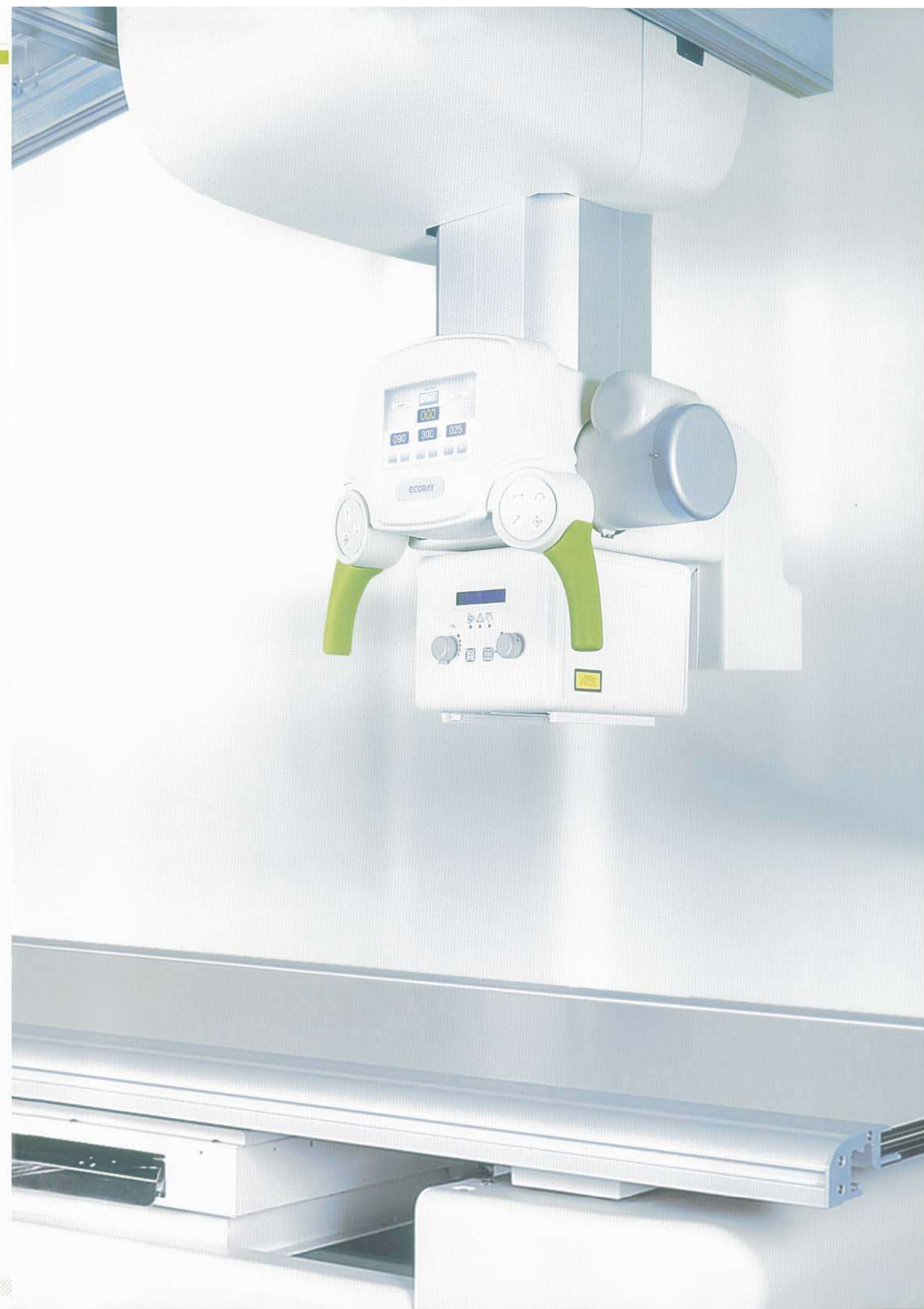


- Updated table from 4way floating manual table
- Elevation motor controlled

Rotating Bucky Tray



- Applicable to 14" x 17" detector
- One-touch rotation of detector tray



ECOVIEV 9 PLUS

The unit offers fine imaging performance...

EcoView9 Plus is a well-established Digital X-ray imaging solution with optimized design.

The ergonomic & durable mechanics can serve you smooth, quick and easy operation to help reliable examinations in your rad room.



Chest Exam

EcoView9 Chest exam is most suitable for small examination centers such as chiropractic and thoracic specialist. It is synchronized up/down movement by motor control that the operator can be easily maintain chest examinations. It also can cover entire wall stand positions.



Digital X-ray equipment optimized for chest exams.

This model offers easy Installation and Operation in limited area like a clinic or a vehicle.

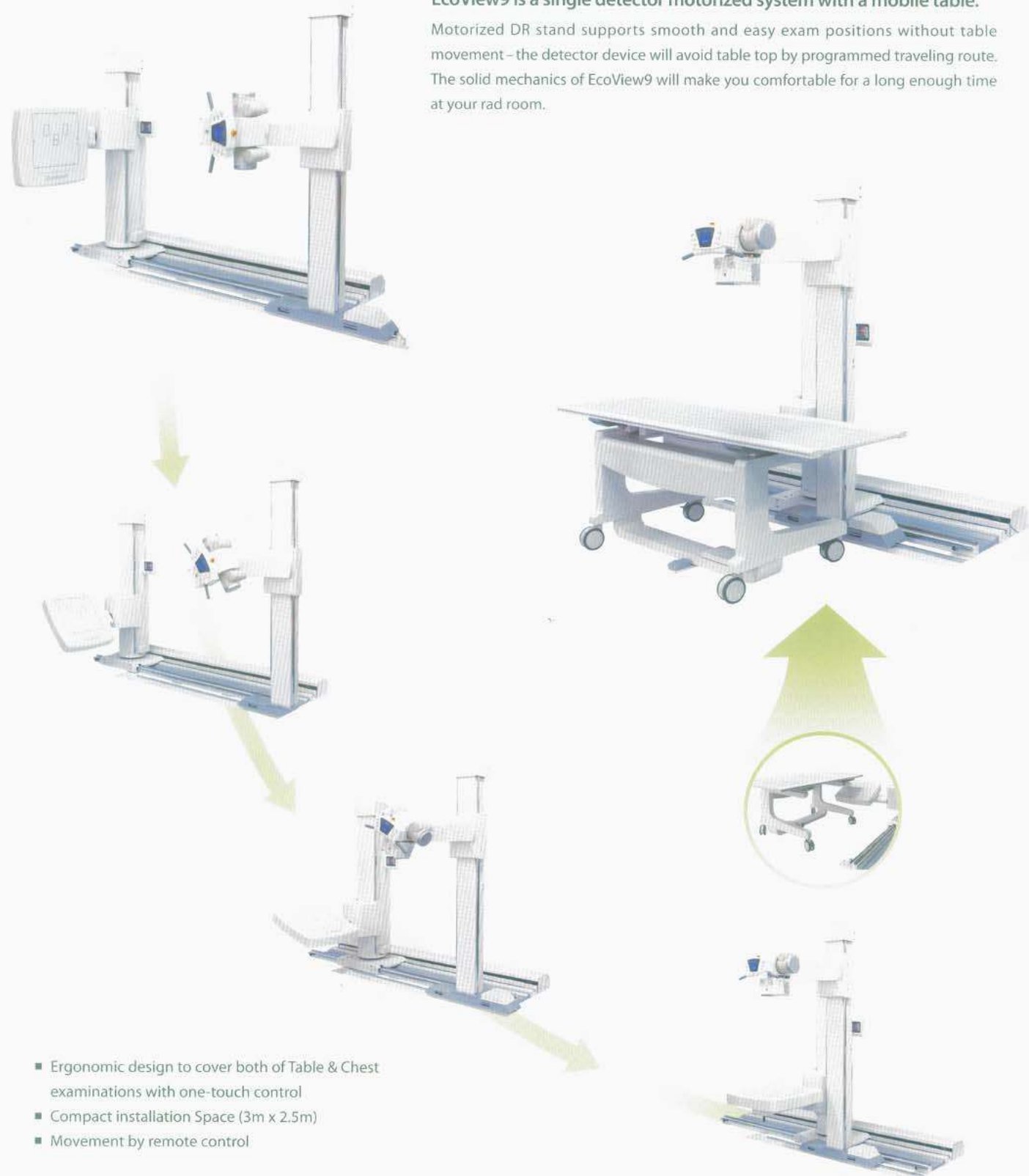
- Compact installation space
- One touch movement by foot switch (Auto Tracking mechanism)
- AEC & DAP (Optional)

ECOVIEW9

Motor Driven

EcoView9 is a single detector motorized system with a mobile table.

Motorized DR stand supports smooth and easy exam positions without table movement – the detector device will avoid table top by programmed traveling route. The solid mechanics of EcoView9 will make you comfortable for a long enough time at your rad room.



- Ergonomic design to cover both of Table & Chest examinations with one-touch control
- Compact installation Space (3m x 2.5m)
- Movement by remote control

BENEFITS

Advanced medical solution

The EcoView9 Plus provides highest quality of X-ray image in just few seconds.

Fast and effortless system, coupled with its workflow optimized user interface, provide at least

Twice the productivity of conventional X-ray systems with its motorized synchronization system.

Ceiling suspended tube stand

The robust tube is easy to operate. It can be moved smoothly and effortlessly, as it is fixed on a resilient ceiling stand.

EcoView9 Plus provides an impressive vertical range of 150cm, the tube can go down to where your patient's feet are.

Upright stand

- Smooth movement of bucky device with electromagnetic brake.
- One touch button to release or stop it.
- Tilting bucky for diverse examination positions, (optional)
- Different size of TFT Flat panel digital detectors are applicable.
- Motorized synchronization system, (optional)

Fit for purpose, easy to use

EcoView9 Plus offers smart features that speed up your daily routine.

Reliable tracking system synchronizes the movements of tube and detector maintaining constant SID.

The tracking system feature can be used for table and wall bucky stand applications.

Additionally the auto collimator recognizes SID and adjust the light field.

Dose efficiency

X-ray quantum detection efficiency is a measurement X-rays that detector absorbs.

Systems with higher quantum efficiency can produce higher quality images, at lower dose.

Easy application to Digital solution

- Ergonomic design for different size flat panel detectors
- Table bucky synchronized movement along the tube position.
- Transmission of the image through DICOM 3.0 compatible
- No cassette handling / No darkness needed
- Cost saving (No film and chemicals)

Digital Acquisition Software – “ECOVIEW”

ECOVIEW DR Console S/W

Consists

1. Image Processing Engine
2. Main Console viewer
(worklist, Browser, Exposure, Review)
3. DICOM
 - DICOM storage SCU/ Modality Worklist SCU/ Print SCU
 - DICOM Query, Retrieve
 - DICOM Modality Performed Procedure service SCU
 - DICOM Storage Commitment SCU
4. Get parameter Tool

Features

Control of DICOM

- Available DICOM sending multi PACS server at real time.
- Patient CD with image viewer and export variety image format (JPG, BMP, PNG)

Control of X-ray system

- Set x-ray exposure condition
- Set study position for bucky and tube
- Control ready & exposure x-ray

Control of detector

- Ready & Read raw data from detector
- Calibration offset value
- Monitoring interface to detector

Local information DB

- Study information store and management
- Control & modify & searching DB

Pre-Processing

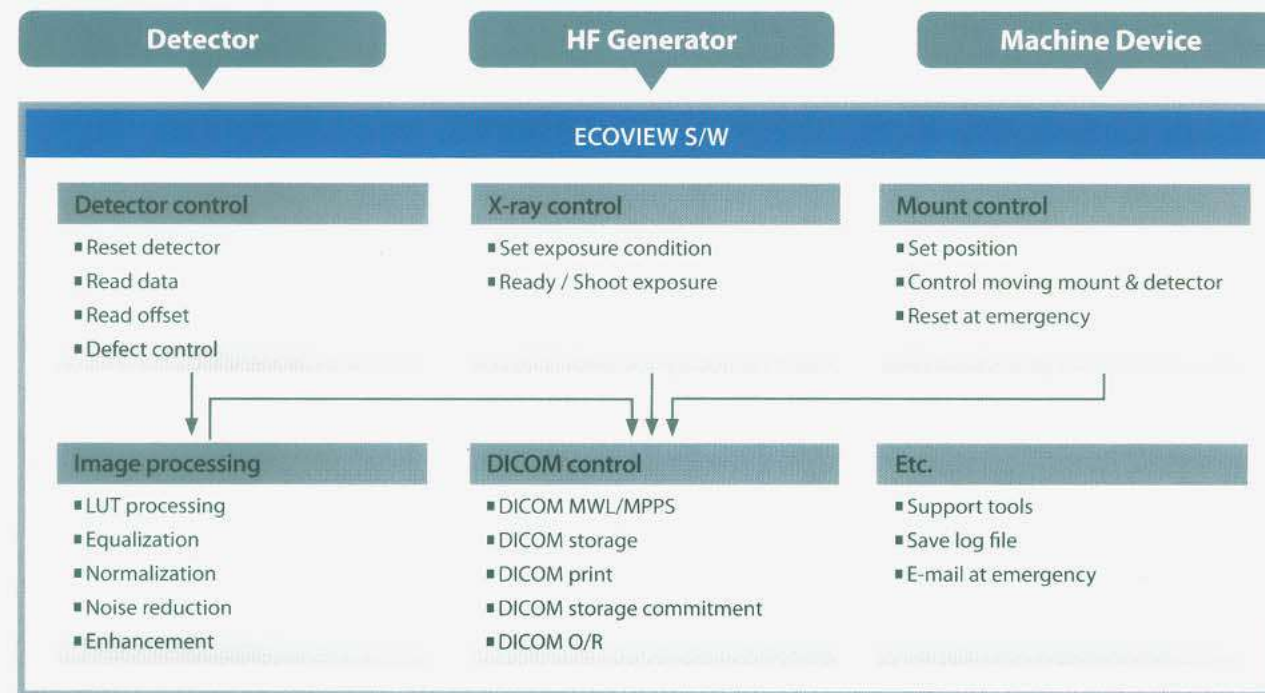
- Various contrast equalization
- Auto Windowing, Noise Reduction, Background filtering.

Post-Processing

- Contrast & Edge enhancement.
- Smoothing, Image Frequency filter.

Others

- E-mail and store log at emergency
- Various image handling (Rotation, Annotation, Masking, ROI)
- Merge or separate study or image
- Backup images to external HDD with image viewer



PACS server, film printer, CD-ROM, etc by network



Flat Panel Detector

1717 wired



- Super Fine Image
- Improved Workflow through Immediate Image Reading
- Wide Image Area, Significantly Reduced Dead Space
- User Friendly Design Constructed for comfort

1417 wired



- Auto Trigger Technology enable rapid installation
- Perfect Fit to Bucky Tray
- Removable Handle
- Shock Indicator

1417 wireless



- Images Transmitted via WiFi without any cable
- 1GB speed connection within 5sec.
- No integration Required by Auto Triggering
- Operation Time over 960 shots / 3.5 ~ 4hours



Upgrade to true digital flat panel technology



Significantly reduced dead space



Large active area for the image with high image resolution



High compatibility with 3.0 DICOM standard