

**ECOVIEW 9 PLUS**  
**ECOVIEW 9**  
Digital Radiographic System

**ECORAY**

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**ECORAY**

www.ecoray.kr  
www.ecoviewmedical.com

**E**rgonomic design  
**C**omfortability at operation  
**O**ptimized performance  
**R**eliable features and functions  
**A**ffordable options  
**Y**earlong 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.



# ECOVIEW 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.



## Advanced medical solution

ECOVIEW 9 PLUS provides highest quality of X-ray image  
Fast and easy  
Twice the productivity of conventional radiography  
Motorized synchronization system

## Ceiling suspended tube stand

Easy to operate.  
It provides a vertical range of 180cm and the tube can go down to where the patient's feet are

## Upright stand

Smooth movement with EMB  
Tilting bucky for diverse exam positions  
TFT Flat Panel Detectors  
Synchronized to tube

## Easy application to Digital solution

Ergonomic design for different size FPD  
Table bucky synchronized along with the tube position  
DICOM 3.0 compatible

# Digital Acquisition Software – “ECOVIEW”

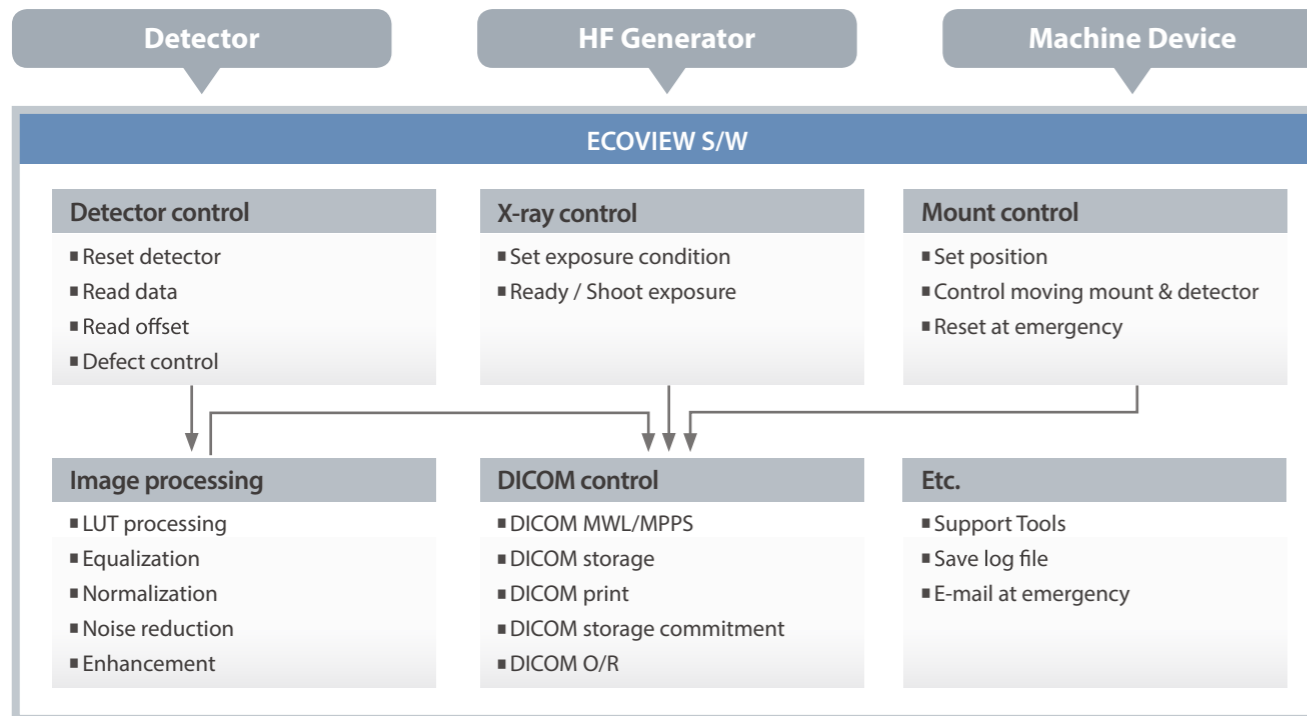
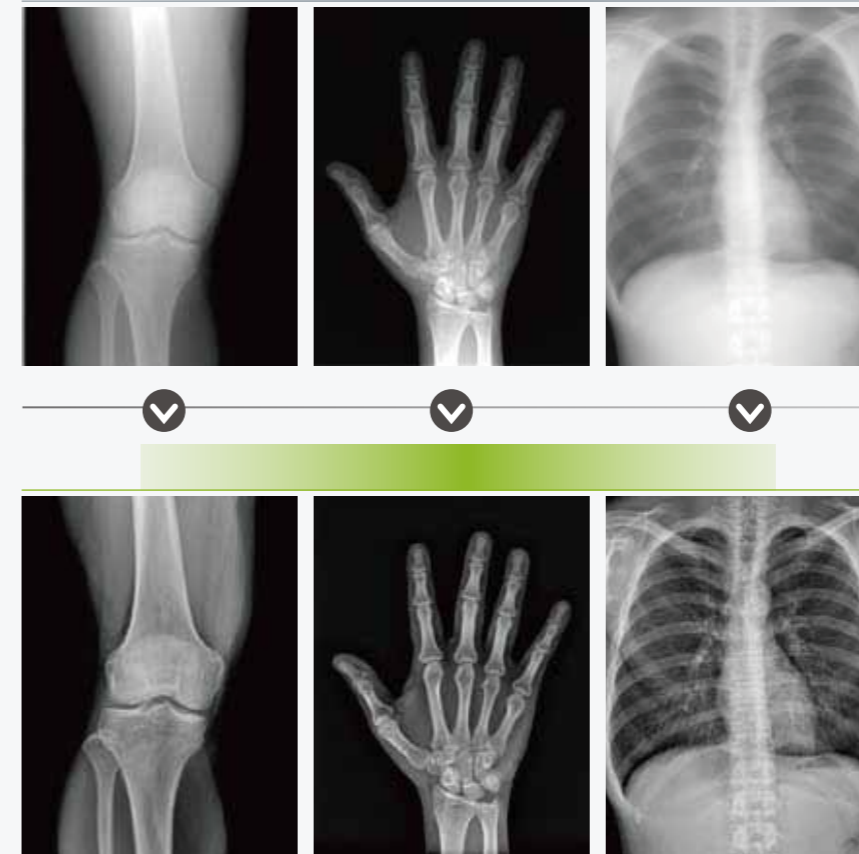
## ECOVIEW DR Console S/W

### 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 sever, film printer, CD-ROM, etc by network

## Flat Panel Detector

### 1717 wired



- AED function without connecting to Generator
- Quick Preview(within 2 seconds)
- Easy and fast upgrade to DR

### 1417 wireless



- AED function without connecting to Generator
- Quick Preview(within 2 seconds)
- Fast wireless communication(WiFi) through 802.11n
- Battery operation : 4 hours

### Toshiba FPD(Optional)



- 43x43cm
- Cesium Iodide(CsI) with a-Si
- Pixel Pitch: 143 um



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

# ECOVIEW9

## U-arm(Straight type)

- Double step motorized stand for compact installation space.
- Motorized Up/Down & SID adjustment.
- Dual control way - either from Tube side and bucky.
- Lock sensor operation by simple hand grip.
- Easy angle change by smooth arm rotation & bucky rotation.
- Clear display of SID & angle on Tube side touch screen.
- Quick table launch for bed side exams.
- Removable grid bracket



Detector angle adjustable



Easy Lock-free mechanics



“ECOVIEW 9 / Straight Arm” is a complete solution for Chiropractic / Urgent & Primary Care.



Table position



Axial projection



Quick positioning to Chest & Table

## 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.



Synchronized up/down



### 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)

## Optional Items

### Ceiling Suspended Tube Stand (Manual)

- Rail size : 3,500 x 2,500/4,000 x 3,000 mm
- Tube rotation : ± 180°
- Vertical travel : 1,500mm



### Tilting Bucky Device

- Tilting function : -20° ~ +90°



### Elevating Bucky Table

- Updated table from 4way floating manual table
- Elevation motor controlled
- Vertical travel : 545 ~ 890mm



### Rotating Bucky Tray

- Applicable to 14" x 17" detector
- 90 degrees rotation



## Auto tracking system (optional)

ECORAY also can provide X-ray system with auto tracking function.

### Ceiling Suspended Tube Stand (Synchro)

- Auto tracking to bucky stand(up & down)
- Auto tracking to table elevation



### Motorized upright stand(Synchro)

- Up & Down synchronized with Tube
- Vertical travel 1,315mm



### Elevating Bucky Table (Synchro)

- 6 way table
- Elevation motor controlled
- Auto tracking to tube up & down
- Auto tracking to tube longitudinal travel



## ECORAY HF Generators

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.



32/40kW

30/40kW

Ultra Capacitor bank

50/65kW

80kW

(Max. 300kHz Frequency)

Power	32kW	40kW	50kW	50kW	65kW	80kW
Max mA/kV	400mA / 125kV	500mA / 125kV	630mA / 150kV	800mA / 150kV	800mA / 150kV	1,000mA / 150kV
Max rating	400mA @ 80kV	500mA @ 80kV	630mA @ 75kV	800mA @ 62kV	800mA @ 81kV	1,000mA @ 80kV
mAs Range	0.1 ~ 400mAs	0.1 ~ 500mAs	0.1 ~ 630mAs	0.1 ~ 800mAs	0.1 ~ 800mAs	0.1 ~ 1,000mAs
Exposure time	0.001 ~ 6 sec					
Line Voltage	220VAC, 50/60Hz, Single phase PSU option (capacitor bank)			380VAC, 50/60Hz, Three phase		
Frequency	40kHz			Max. 300kHz		
Automatic Line Compensation	+/- 10%					
APR	288 APR standard			1,290 APR		

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

### OP Console



LCD op console



Touch screen LCD op console



LCD op console for 300kHz Frequency HFG