

# DIGITAL RADIOGRAPHY MACHINE

(65.5KW, 800mA, CANON X-ray tube, 17\*17inch FPD, Floor-Mounted, Elevating table)

## CCX65A



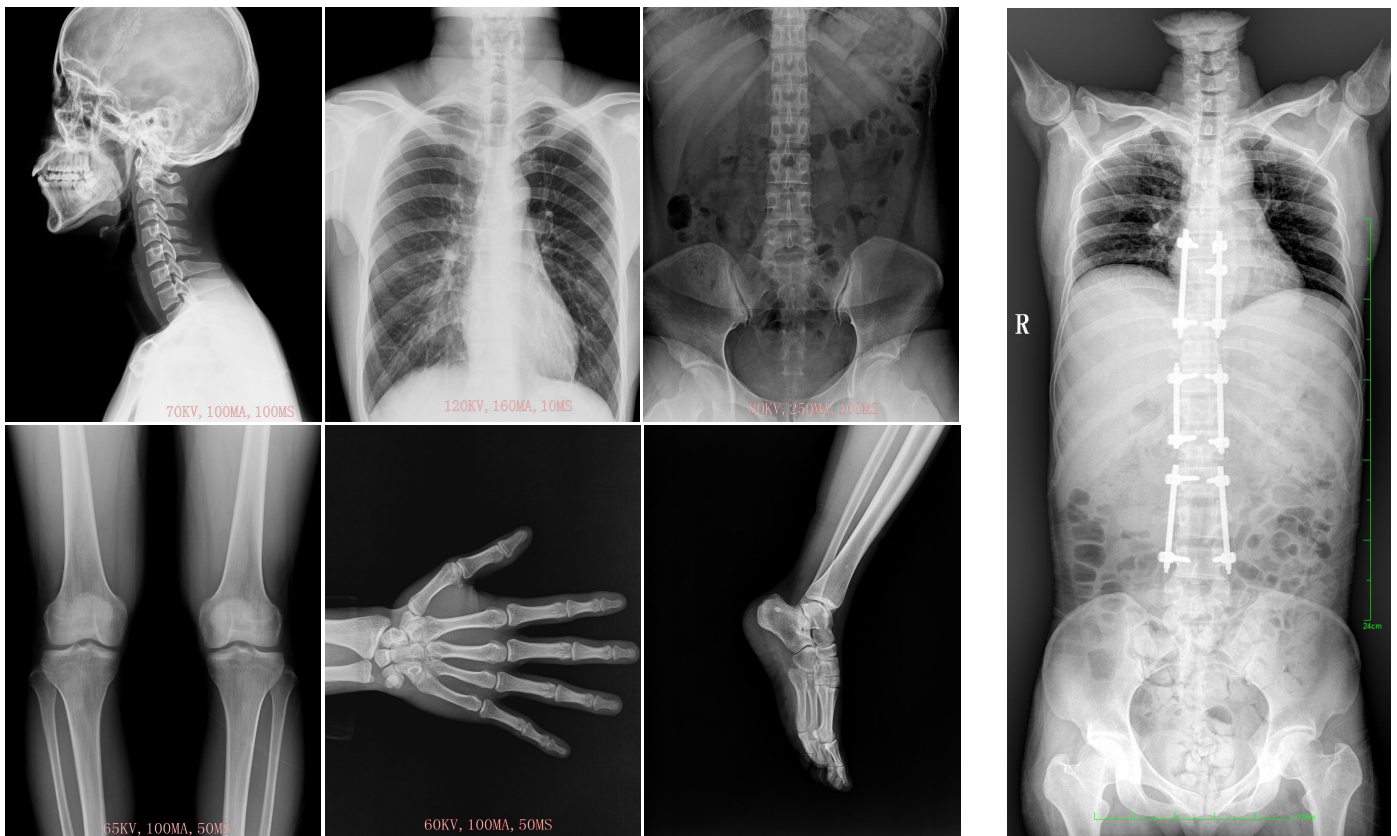
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**BROCHURE**

## PRODUCT DESCRIPTION

### 1: Application:

It is suitable for radiology department, orthopedics, ward, emergency room, operating room, ICU and other departments. With flexible movement, easy operation, high efficiency, to meet the radiography for all of human body's parts, such as head, limbs, chest, spine, lumbar vertebrae, abdomen, etc.



Radiography dep.



Fever clinic



Children's Dep.



Operating room.

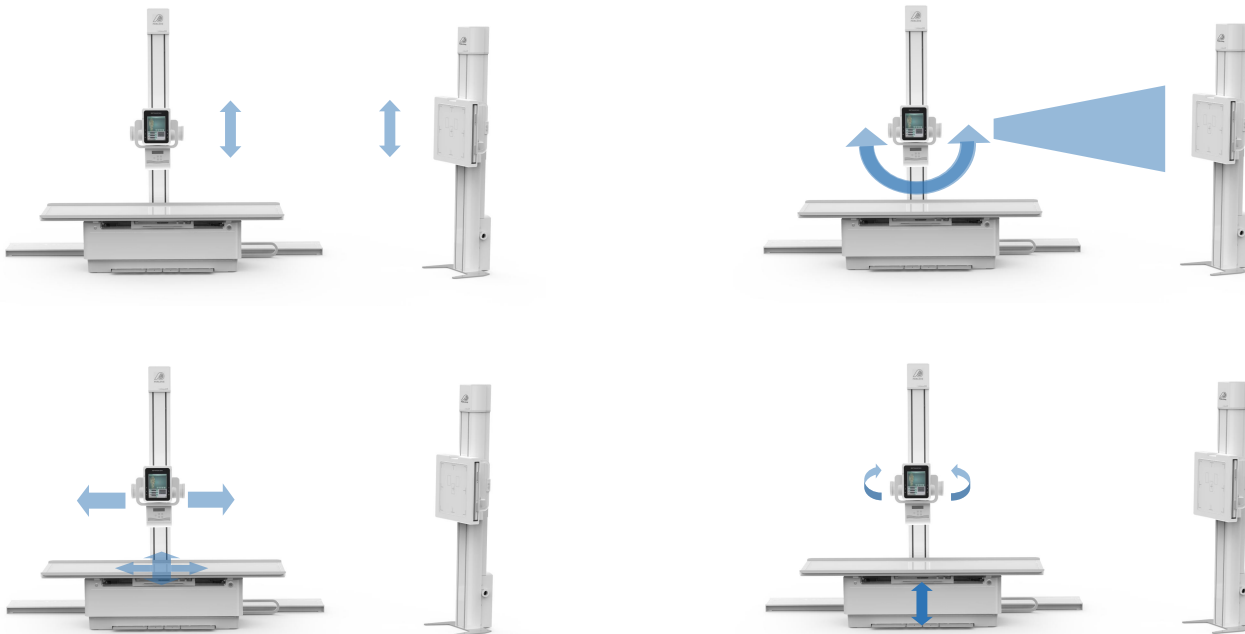


Ward/ICU



Diagnostic /Medical center

## 2. Movement of machine



### Table and tube Movement: – Elevating table

Table-side Digital touch screen control system with over 10 functions. Display for protocol selection, data correction and image review	
<b>Height of table top:</b>	<b>500m~720mm</b>
Longitudinal travel of tubel column:	2500mm
Longitudinal travel of table top:	1000mm
Transverse travel of table top:	260mm
Table dimensions: (L*W*H)	2250 x 810 mm*(500-720mm)
Tube column rotation	-180° ~ +180°
Tube Up and down:	1500mm (Tube is lowest 35cm from ground)
Tube head rotation	-90° ~ +90°
Maximum load capacity of the table	200 kg
Grid	18inch*18inch, 103LP, 10:1, <b>focal length:1.0m</b>
<b>Bucky stand</b>	
Range of the detector mechanism Center:	1500 mm
Distances: center of the detector to the floor	35cm
Grid	18inch*18inch, 103LP, 10:1, <b>focal length:1.8m</b>

### 3: Product Specification

1. Item	2. Content	3. Technical Parameters
<b>Power</b>	Voltage	380V±38V
	Frequency	50Hz±10Hz
	Electrical Power	Three phase
<b>High Frequency High Voltage Generator</b>	Output Power	<b>65.5KW</b>
	Inverter Frequency	<b>500KHz</b>
	Tube voltage	40kV - 150kV, 1 kv step
	Tube current	<b>10mA - 800mA</b>
	mAs	0.1-800mAs
<b>Collimator</b>	Illumination brightness	>=200Lux
	Filiter	>=1mmAL
<b>X ray tube CANON BRAND</b>	Model:	<b>E7252X</b>
	Tube Focus:big/small	1.2mm /0.6mm
	Input power	Big focus 75kW Small focus 27kW
	Target surface	12°
	Anode thermal capacity	300KHU (rotating anode)
	Anode Heat dissipation:	870W
	Tube Capacity:	1250KHU
	Filter	0.9mm AL/75KV
	Rotary anode speed:	9700rpm
	Work voltage:	40-150KV
<b>Flat Penal Detector</b>	Materials	A-Si(Amorphous Silicon)- CSI
	Active area	430(H)×430(V)mm
	Pixel matrix	3072(H)×3072(V)
	Pixel pitch	139µm
	Spatial resolution	3.7LP/mm
	A/D	16bit

#### 4. *Digital Working Station with software:*

★ **Registration:** Auto registration, be equipped with Dicom Worklist SCU. To simplify the input process for doctors, greatly reduce the amount of labour and greatly improve the working efficiency

★ **Image Acquisition:** Automatic window adjustment, Automatic cropping, Automatic transmit.

★ **Image Processing:** Tissue equilibrium, W/L adjustment, Gamma correction, interest district, reversed phase, noise reduction, smooth, sharpen, pseudo color, edge extraction, shadow compensation, filter nuclear, single window, dual-window, four windows, movement, right rotated 90°, left rotated 90°, level mirror image, vertical mirror image, magnifying glass, image zooming, reset, layer information, label character, drawing label, length measurement, angle measurement, rectangular length, rectangular area, elliptic length, elliptic area. Algorithms for image optimization according to different physiological structures and parts of the body

★ **Image output:** Dicom 3.0 format: Transmit, Image Storage, Image viewing, Image printing.

Transmit-Compatible to connect to the PACS,HIS,RIS system

Printing-Compatible to Film printer to print out image for diagnosis

Report-Paper report interface for output with reference at most 3 images for comments.

Storage-USB /DVD driver copy out images.

★ **Help:** Click this button , you will find a manual for guiding you use the workstation.

**Tips:** Workstation is equipped with 19" imported LCD high resolution medical monitor screen, the delicate and richness degree of image is far higher than the normal medical monitor.

★ Brightness and Contrast of monitor up to 1000NIT, better than the normal LCD screen of 400 NIT.

★ Be equipped with the microphone and remote exposure control outside the X-ray room.

★ Be equipped with various set of infrared facilities to protect the machine from any miss-operations.

★ Overloading system with error code alarming self-protection design

★ Number of predefined anatomical programs; More than 200,000

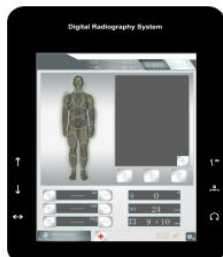


## 5. Advantages

### (1) Table-side Touchable Control System

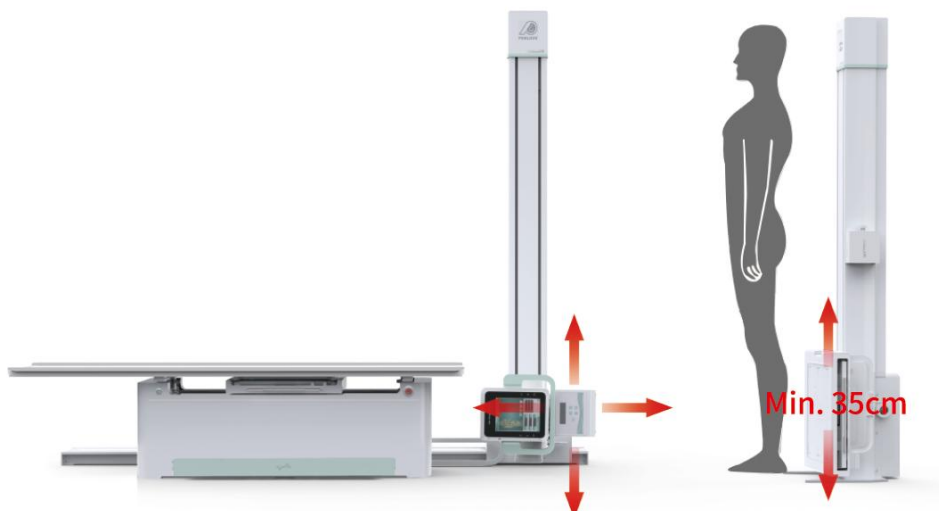
New added touchable table-side screen system come with multifunctional functions:

- Synchronized with the workstation, radiographer can create a new exams anywhere both in X-ray room and control room, which is more convenient for the doctor's daily exams and emergency, no need repeat settings .
- Pre-view images after exposure,
- Real time display SID stretching,
- Setting exposure parameters.
- Human graphic body part selection of exposure
- Adjust Collimator- effective area
- Digital display movement : tube head rotation angle
- 3D model Positioning demonstration
- Gravity Sensor Automatic Rotate
- Emergency exams access: automatic record for take radiography firstly then do patients registration when urgent diagnosis required.



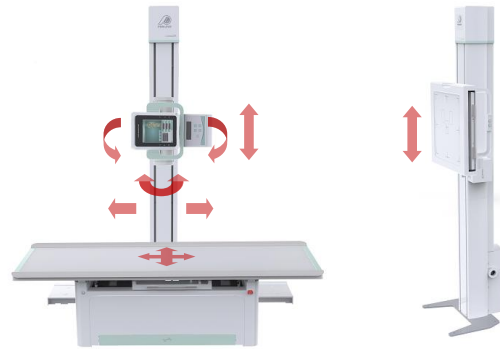
### (2) Low positioning radiography

35cm minimal distance between X-ray tube and the floor, allowing low profile radiography covered by wide range tube movement.



### (3) Flexible movement

- Tube up and down.
- Detector of Bucky stand up and down.
- Table top 3 dimensional moving
- Longitudinal moving of spherical column
- Tube rotates around the column
- Tube Swing around axis



### (4) equipped with 2 sets of grids for both bucky stand and table

There are 2 set (1 m and 1.8 m) high-density wire grids are standard, removable design, no need to use wire grids when shooting children or low-dose parts, which can effectively reduce radiation damage to doctors and patients



### Real Machine in Production :



