



ULTRA VISION 500

X-RAY DIAGNOSTIC SYSTEM



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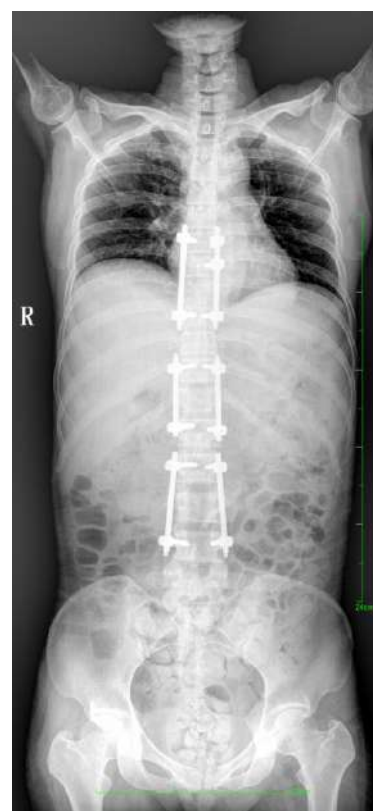
TECHNICAL SPECIFICATION X-RAY

DIAGNOSTIC SYSTEM

I. Application:

Fully automatic equipment suitable for general radiology, orthopedics, trauma rooms, emergency rooms, operating rooms, ICU, and other departments. With ergonomic, flexible movement, easy operation, and high efficiency, it meets the radiography needs of all parts of the human body and their applications, such as general digital radiography of the head, extremities, chest, spine, lumbar vertebrae, abdomen, pediatrics, etc.

LOW-DOSE, ULTRA-HIGH-DEFINITION IMAGING



Equipment Movements

X-RAY DIAGNOSTIC SYSTEM

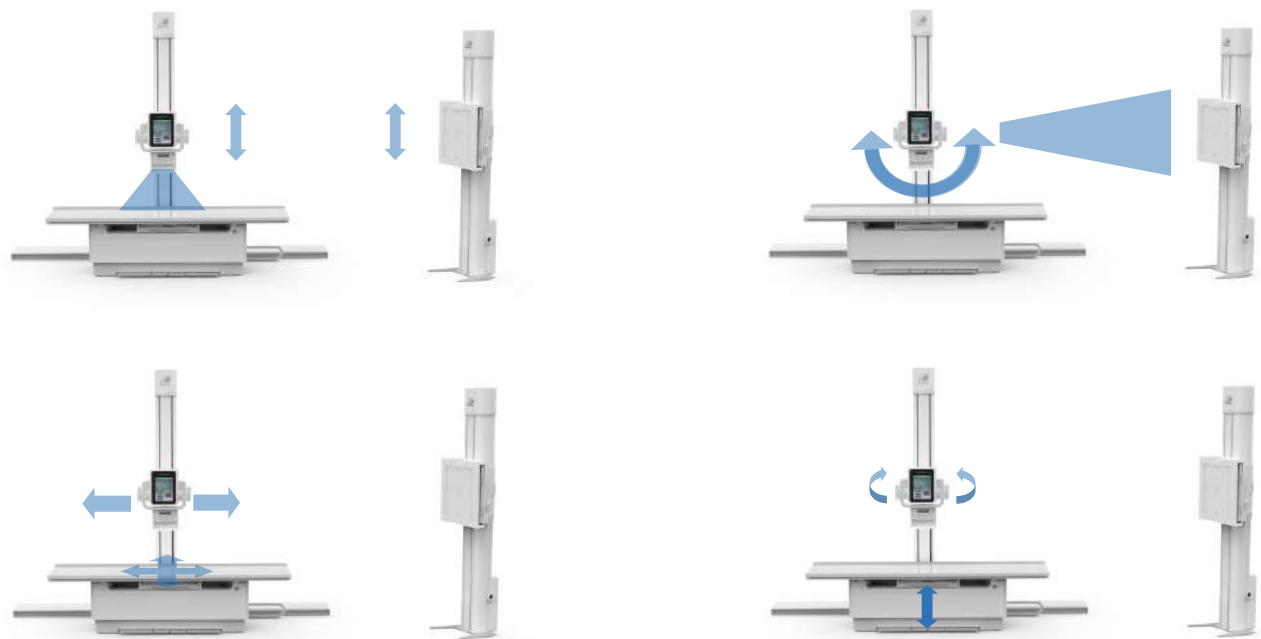


TABLE AND TUBE MOVEMENTS

Table height	500m~720mm
Tube transverse travel	150mm
Tube support longitudinal travel	2500mm
Table longitudinal travel:	1000mm
Table transverse travel:	260mm
Table dimensions: (length x width x height)	2200 x 800 mm (±2 cm) *(500-720mm)
Tube column rotation:	-180° ~ +180°
Tube vertical travel:	1300 mm (minimum 350 mm from the floor)
Tube head rotation:	-90° ~ +90°
Maximum table load capacity:	250 kg
Grid	18"x18", 103LP, 10:1, focal distance: 1.0 m
Wall Bucky (XPJ20C) - Counterbalanced or Motorized	
Vertical travel of FPD center:	1500 mm
Minimum floor-to-FPD-center distance	35cm
Grid	18"x18", 103LP, 10:1, focal distance: 1.8 m

Product Specifications

X-RAY DIAGNOSTIC SYSTEM

1. Item	2. Content	3. Technical parameters
Power	Voltage	380V±38V
	Frequency	50Hz±10Hz
	Power supply	Three-phase
High-voltage, high-frequency generator (500 kHz)	Rated output power	65KW
	Tube voltage	40kV-150kV, 1 kV steps
	Tube current	10mA - 800mA
	mAs	0.1-800mAs
	Time	0.001-10 seg
Manual collimator	Adjustable field (1.0 m)	0x0cm / 43x43cm
	Filter	> =1mmAL
X-ray tube CANON BRAND	Model:	E7252X
	Focal spot: large/small	1.2mm /0.6mm
	Input power:	Large focus 75 kW; small focus 27 kW
	Tube angle:	12°
	Anode heat capacity:	300 KHU (rotating anode)
	Anode heat dissipation:	870W
	Tube heat capacity:	1250KHU
	Filtration tube/total:	0.9mmAL@75KV / 1.9mmAL@75KV
	Rotation speed:	9700rpm
	Working voltage:	40-150KV
Wireless Portable Flat Panel Detector	Materials:	A-Si (amorphous silicon) - Cal
	Active area:	430 (H) x 430 (V) mm
	Preview time:	3-5 sec
	Pixel size:	100µm
	Weight with batteries:	<5 kg
	A/D conversion:	16bit
Fixed Flat Panel Detector	Materials:	A-Si (amorphous silicon) - Cal
	Active area:	430(H)×430(V)mm
	Preview time:	3 ~ 5 seg
	Pixel size:	100µm
	Weight with batteries:	<5 kg
	A/D conversion:	16bit

Workstation with Software

X-RAY DIAGNOSTIC SYSTEM

- ★ Fast workflow: Simplifies the patient-entry process for physicians, greatly reduces workload, and significantly improves operating efficiency.

- ★ Image acquisition: Digital DR image acquisition and processing platform.

- ★ Advanced image processing: Tissue equalization, brightness/contrast adjustment, gamma correction, region-of-interest selection, inverted phase, noise reduction, smoothing, ROI enhancement, false color, edge extraction, shadow compensation, color inversion, single window, dual window, four windows, pan, 90° rotation to the right, 90° rotation to the left, horizontal mirror image, vertical mirror image, magnifier, image zoom, reset, image stitching (spinograms and lower limbs), layer information, label annotation, label drawing, length measurement, angle measurement, rectangle length, rectangle area, Cobb angle, hip dysplasia evaluation grid.

- ★ Preconfigured and adjustable APR anatomical programs with automatic image optimization algorithms for different physiological structures of the body and for adult and pediatric patients.

- ★ Permanent DICOM 3.0 protocols: SCU/SCP storage, modality worklist, MPPS, query/retrieve, print, storage commitment.

- ★ Conveniently compatible with HL7 and HIS/RIS/PACS systems.

- ★ Equipped with an imported high-resolution 23-inch medical LCD monitor; image delicacy and richness are far superior to ordinary medical monitors. Advanced international level.

- ★ Radiological indices of each exposure (kV, ms, mA, and mAs) are saved for each patient, allowing later review and replication of studies.

- ★ These features enable a more accurate and fluid medical diagnosis.

- ★ Equipped with a microphone and remote exposure control. The physician can operate from outside the main room

- ★ Equipped with overtemperature protection systems and remaining thermal capacity indicators, ensuring safe operation of the equipment.

- ★ Generator parameter management. Remote digital control of the X-ray machine exposure parameters by microprocessor, with a self-diagnostic system, alarms, and error messages.

- ★ Automatic exposure control (AEC) for wall bucky and X-ray table: reduces the radiation dose received by each patient



Advantages

X-RAY DIAGNOSTIC SYSTEM

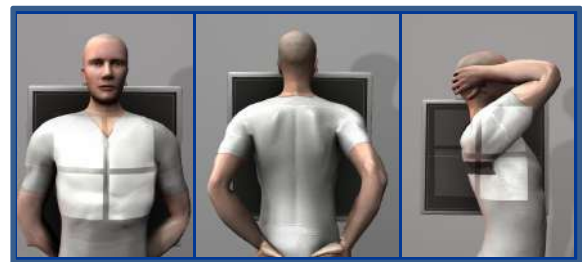
The display screen is synchronized with the workstation, allowing the operator to initiate a new examination from the control room—a convenient feature for both routine clinical inspections and emergency situations.

A touchscreen interface is used to configure the IMAGE and X-RAY settings. The IMAGE interface allows for the adjustment of SID, exposure parameters, X-ray beam size, tube head rotation angle, patient body habitus, and the selection of specific diagnostic protocols.

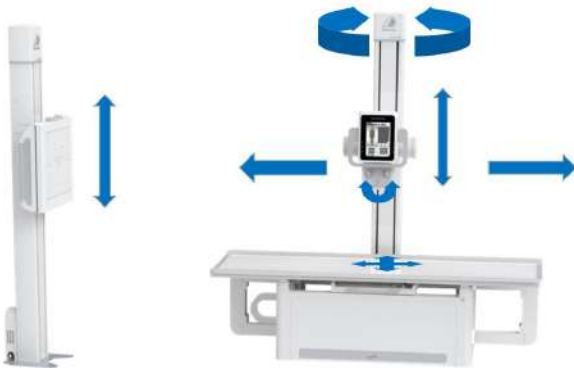
The X-RAY interface displays captured images immediately, eliminating the need for operators to move back and forth between the equipment room and the control console.



Interface Auto-adjustment



3D Positioning Guide



Motorized, floating, and manual movement with electromagnetic brakes:

- Counterbalanced tube support with motorized vertical tube movement (up and down).
- Vertical movement of the Bucky stand detector.
- Floating tabletop.
- Longitudinal movement of the tube column.
- Tube rotation around the column.
- Tube rotation around its own axis.



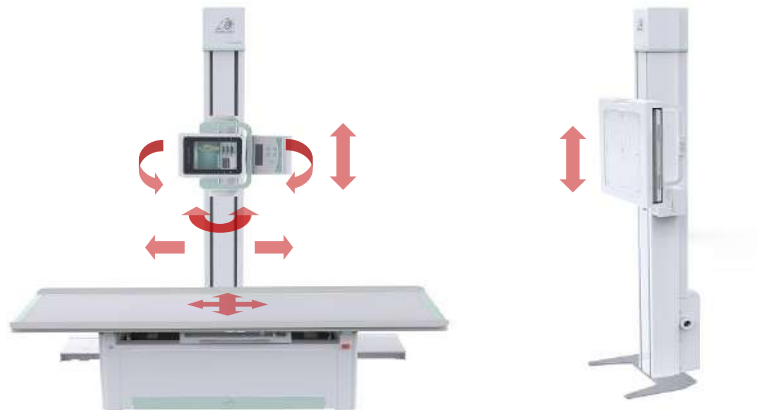
Low-position radiography:

Minimum distance of 35 cm between the X-ray tube and the floor, allowing for low-profile radiographs thanks to the tube's wide range of motion.

Workstation with software

X-RAY DIAGNOSTIC SYSTEM

Flexible movements



- Tube up/down movement
 - Wall Bucky up/down movement
 - 6-way patient table
 - Longitudinal column movement
 - Column rotation
 - Angular movement around the axis
- Removable grid sets for wall Bucky and table**



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