



ASR-6850P

Product Datasheet for
Digital Radiography System

Get the diagnostic clarity from this system

ASR-6850P digital radiography system

ASR-6850P is a floor-mounted DR system with integration design consisting of floor mounted X-ray tube and FPD, and four-way floating bed frame structure. It needs less room space and easy for installation. It's equipped with the maximum size and high-performance removable FPD of industry, which can meet the clinical needs of all conventional positions of special positions. Flexible performance enables users easily to deal with high patient throughput whether it's in mobility wheelchair, stretcher patients or emergency door, critically ill patients, all can be realized fast and accurate positionings.



System Hardware

High frequency high voltage generator

Nominal power	50KW
Tube voltage range	40 ~ 150KV
The maximum tube current	10mA~630mA
Exposure time range	1ms~10000ms
Current time product range	0.2mAs~800mAs
Rated voltage and frequency	3N~380V,50Hz
Input power	85kVA
Frequency of high frequency generator	500KHz



Flat panel detector



Type	Movable
transfer method	Wired/wireless
Detector material	Amorphous silicon
Scintillator material	CsI
Detector size	17 × 17 inches
Pixel matrix	3072 × 3072
Pixel size	≤139μm
Spatial resolution	≥3.6 LP / mm
A / D converter bits	16 bits
Lift range of detector	1400mm

Tube assembly

Rotating anode heat capacity	300 KHU
Focal spot size	0.6 / 1.2mm
Focus Power	Big focus:75KW; small focus:32KW
Nominal voltage	150kV
Inherent filtration	0.7mmAl/75KV
Anode Target angle	12 °
Maximum continuous heat dissipation	180W





X-ray tube column bracket

The horizontal axis rotation angle around the tube assembly	$\pm 180^{\circ}$
Angle of rotation around the vertical axis of the column	$\pm 180^{\circ}$
Tube assembly lifting range	1200mm
Column longitudinal moving range	1700mm

Bucky

Vertical movement range	1400mm
Grids Size	450 mm × 450mm
Grids ratio	10: 1
Grids density	40 Lp / cm
Focal length	130cm

Collimator

Light source	LED
Illuminance	288.3lx
Inherent filtration	1.0mmAl @ 70 kV
Rotation angle	$\pm 45^{\circ}$
Automatic turn-off function	Provided, collimator light time on to be adjustable, default to be 30s.

Patient table

Type	4-way floating bed
Bearing	200KG, maximum 300kg
Height from the ground	680mm
Size (length × width)	2100mm × 820mm
Traversal movement range	250mm
Longitudinal movement range	900mm
Detector tray moving range	500mm (single direction moving)



Workplace Systems

Console Workstation

CPU	4 cores 4.6GHz
RAM	8.0GB
Hard disk storage	2TB
Monitor	24 inches
Monitor resolution	1920 x 1200
System	Windows 10 Professional

Workstation Software

Patient Information Management	Patient information, checking and image management
Worklist	Standard DICOM 3.0 Worklist query service, can query and download information from HIS /PACS

Working Conditions

Environmental Conditions

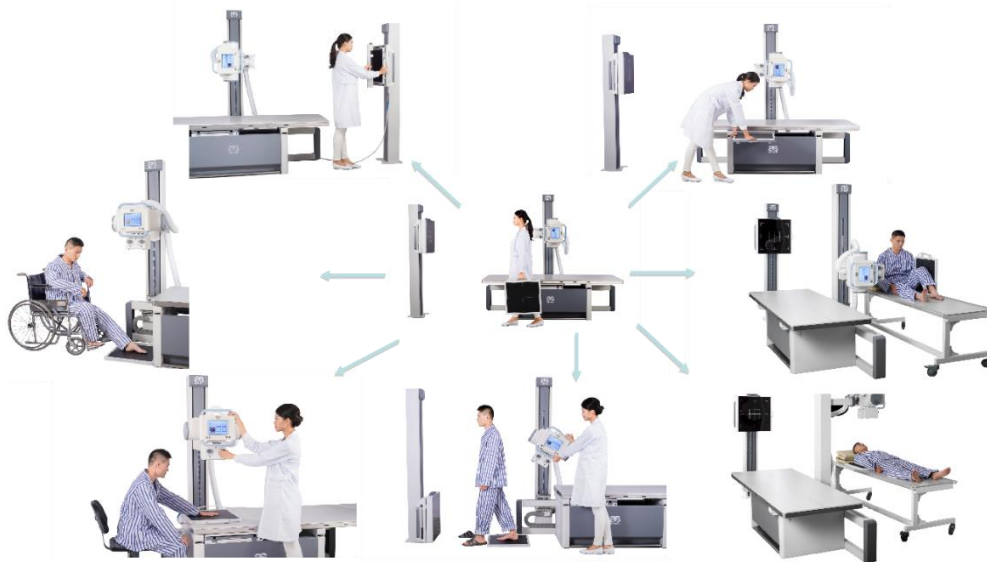
Environment temperature	10° C~40° C
Relative humidity	≤75%
Atmospheric pressure	70kPa~106kPa

Power Conditions

Mains Requirement	3N~ 380V
Frequency	50Hz
Internal resistance	≤0.1Ω
Power	85kVA/50Hz

Convenient workflow

The portable FPD can be placed in the integrated floating, stand chest bucky and ground, behind patient's back and any other positionings to complete photography.



Intelligent dual mode of operation

Operation can be done both on color touch screen attached to the bucky (Beside patient) and console (Operation room). Radiologist can read and confirm patient information, also correct positioning according to schematic positioning display on screen. In addition, the operator can preset exposure parameters on patient side referring to body's conditions and circumstances, achieve photographic parameter adjustments and controls.



Integrated design, compact and flexible

Integrated design allows less room space for installation. X-ray tube mounted column is combined with fixed four-way floating bed, no need of separate installation tube column bracket. Four-way floating bed with 200kg capacity and flexible mechanics can easily load severe injured patient of emergency without moving and complete imaging to avoid secondary damage. For physical disabled patient in wheelchair and patient in stretcher, our system can easily do bed imaging with flexible mechanics. The large vertical movement range ensures and meets the exposure needs of patients of different heights.



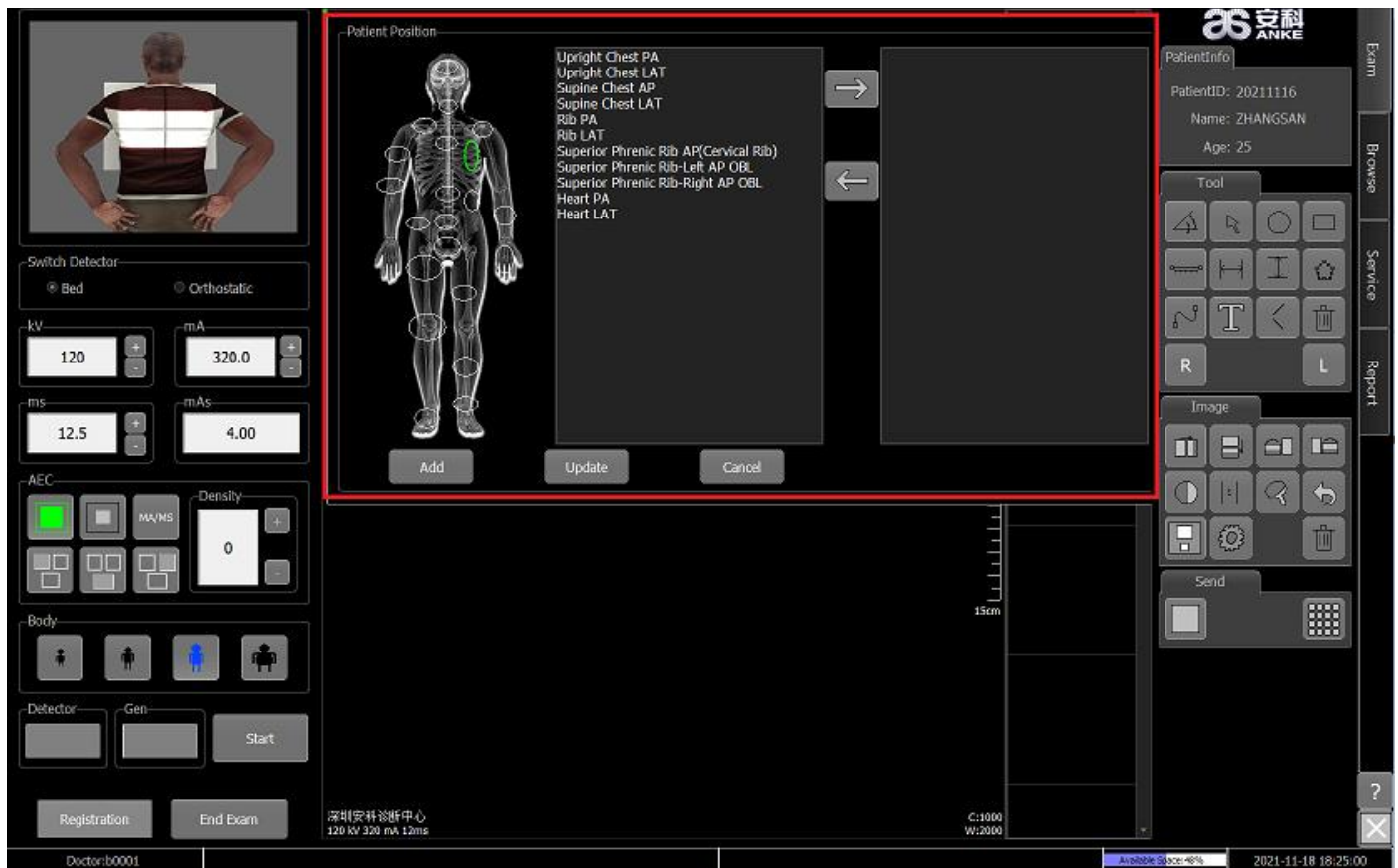
The large FOV movable FPD, fully meet the clinical applications

ASR-6850P adopts the industry's largest size (17 inches × 17 inches) high performance FPD which can provide large FOV and fully meet the need of obese patient exposure. Small-sized FPD only has small FOV which is unable to cover obese patient and may be resulting in misdiagnosis of the lesions existing to tissues and organs off field (as shown in comparison)

Multi-purpose FPD. Movable FPD can be placed within the column stand for the most photographic examinations to meet many patients throughput. Also can be placed in a floating bed to complete all examinations of supine and lateral positions. Plus, it can be placed on the ground, the back of the patient in wheelchair and moving bed, etc. for easy inspections of photography.

Powerful integrated acquisition and control platform, the fastest workflow

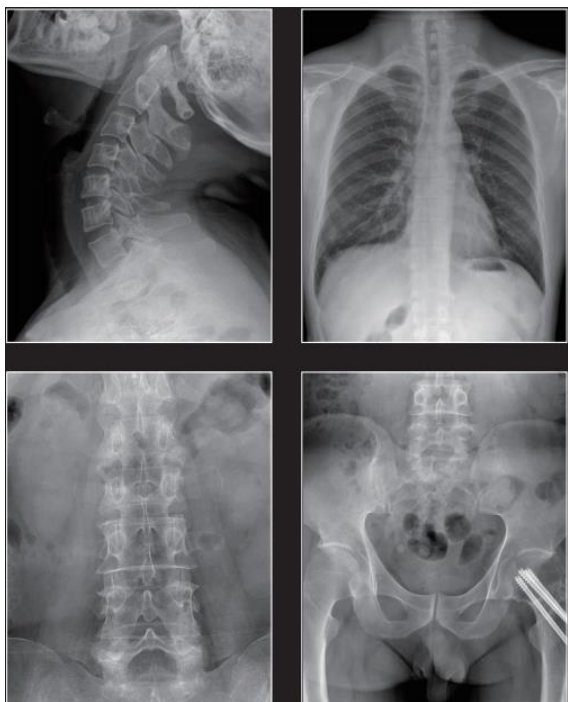
Image acquisition and post-processing integrated workstation platform includes registration, collection, storage, report, print, transfer, query and other functions. Friendly interactive user interface, simple and user-friendly operation process, in the meanwhile fully meet DICOM 3.0 standard, enabling seamless connections to HIS / RIS / PACS systems.



Intuitive three-dimensional body part and schematic positioning indications. These indications can guide precise positioning, rapid completion of photographic examination. Default exposure dose depending on the size of body can provide precise dose control and obtain high image quality.

High-quality image chain, high-definition image

High-quality image chain design and professional and efficient image processing algorithms can accurately reproduce the anatomy by excellent quality images providing basis of accurate diagnosis.



Functions on console

AEC pre-exposure technique*

With the AEC auto exposure function, KV, mAs and other exposure parameters can be set for exposure according to the patient, and the exposure will be automatically stopped when the predetermined dose value is achieved. The use of full-automatic exposure technique can reduce the requirements for operator's skill, making it easy to use and acquiring the desired image effects

Image Module

Registration system

Patient management

Check management

Image processing

System settings

Data Management: manual registration, delete, modify, backup, restore

Image processing

Window width and contra adjustment

Image flip, rotation, trim, scaling

Reverse adjustment

Image pan, mirror

Magnifying image display

Gamma adjustment

Multi-LUT curve adjustment

Noise reduction

Image enhancement

DICOM Viewer

DICOM worklist

DICOM Storage SCU

DICOM Storage SCP

Output print (film set, layout)

Optional Accessories

Wireless FPD*

It enables X-ray personnel to act even more independently when taking X-ray images on site – for instance in radiology, on the ward, in emergency rooms, traumatology, orthopedics, or pediatrics. In addition, it simplifies sterilizing the detector due to the lack of any attached cables.



Site Planning

We redesigned ANKE Digital Radiography with compact design language fits your demanding clinical requirements and outstanding system performance

Components

Dimensions	L (mm)	W (mm)	H (mm)	Weight (kg)
Photography Assembly	500	450	2136	1380
Detector Stand	300	200	1912	350
Console	940	600	1150	70
Patient bed	2114	820	680	225

Power Supply

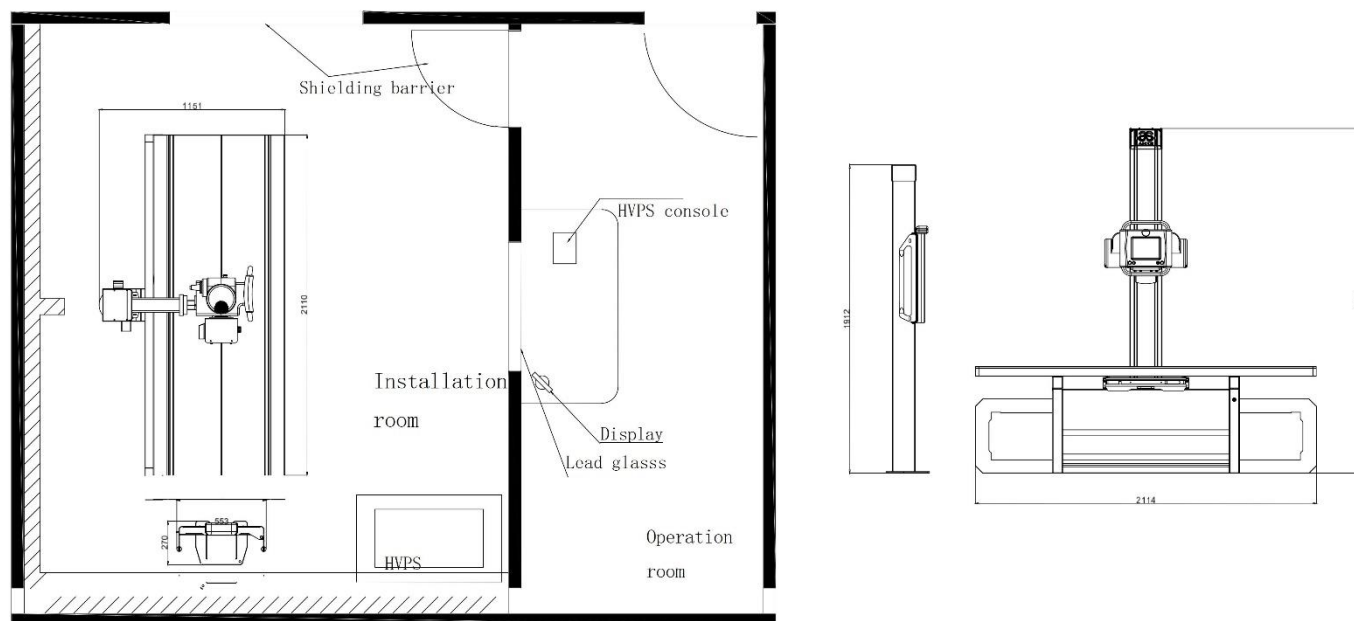
Power input	85 kVA
Frequency	50 Hz/60Hz
Voltage	380 V
UPS for whole system	30 mins for power failure*

*Optional

Environmental Requirements

Temperature of Ambient temperature	10°C~40°C
Temperature of Working environment	25°C±1°C
Relative humidity	≤75%
Atmosphere pressure	70kPa~106kPa

Recommended Area of Room



X-ray room: length $\geq 5\text{m}$, width $\geq 4\text{m}$, height $\geq 3\text{m}$

Operation Room length: $\geq 2\text{m}$, width $\geq 1.5\text{m}$, height $\geq 3\text{m}$

INSIGHT INTO LIFE

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