HF Stationary Medical Diagnostic X-Ray Machine

Synchronous display screen

Control box, LCD touch screen

Open-door type chest stand

1717X Wired Flat Panel Detector
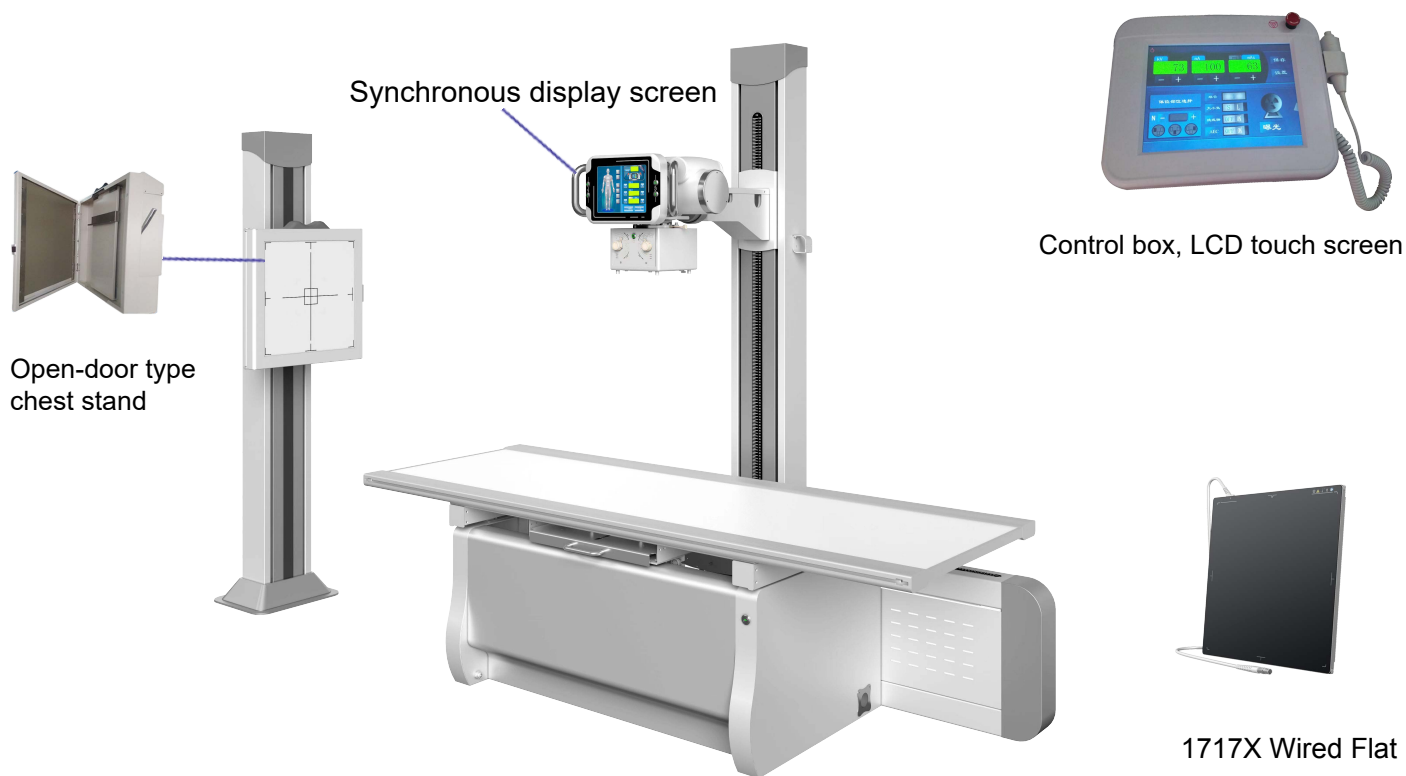
Model：TR30N-DR

DR digital imaging:

X-ray tube

Radiographic

Through Detector

DR digital imaging

Image signal output collecting

high voltage generator

Film print
Report print

Film edit workstation
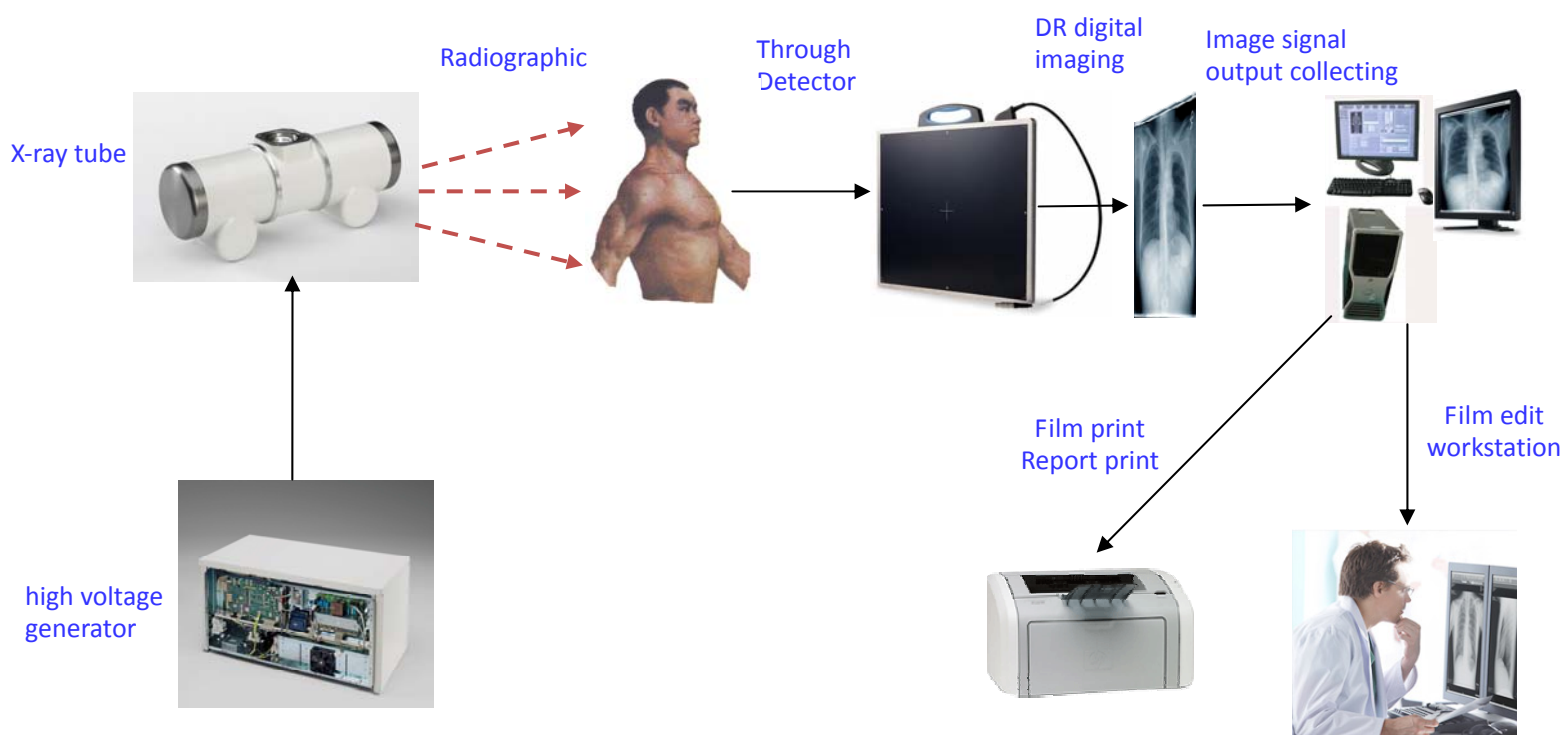
Features:

1. Model TR30N-DR, with Chinese 1717X wired flat panel detector to achieve digital type
2. With energy-storing device, can work properly at 220V, very convenient
3. 32kW 125kV 400mA Radiographic machine

Main Technical Parameter：

Model		TR30N-DR
Power supply		AC220V±10%, 50/60Hz
Working frequency		30kHz
Max. Power		Max. output power 32kW
X-ray tube component		Chinese tube, Rotating anode, Double focus: 1.0mm/2.0mm
Radiographic	kV :	40kV~125kV
	mA :	32mA～400mA
	mAs :	0.32mAs~400mAs
Exposure time range		0.002s~10s
Radiographic table		2100mm×825mm×655mm Longitudinal movement range: ≥825mm, Horizontal movement range: ≥250mm
Tube stand		Longitudinal movement range: ≥1575mm Horizontal rotating range: ±180°, Vertical rotating range: ±90° Distance from focus spot to film: ≥1200mm, Locking way: Electromagnetic lock
X-ray grid		Fixed, Grid density: 103L/cm, Grid ratio: 10:1, Focus distance: 1000mm
Vertical cassette stand		Vertical Travel ≥1000mm and minimum floor to focus distance of ≤800mm, The film size: no more than 17"x17", Bucky: f0=180cm, r=10:1, density: N=103Lines/Inch
1717X Wired Flat Panel Detector		Wired Flat Panel Detector (Made in China, model: 1717X)
		Detector Technology: Amorphous Silicon
		Scintillator: CSI
		Active Area: 17"x17"
		Pixel Pitch: 139um
		Number of Pixels: 3072x3072
		Spatial resolution: 3.6lp/mm
		AD Conversion: 16bits
		Preview Image: ≤3s
		Full Image: ≤5s
		Data Interface / Detector Control: Ethernet
		Trigger Mode: Prep/ Software / Option: AED
		Degree of Protection: IPX3
		Dimension: 460x460x15mm
		Weight: ≤4.0kg
		Power Consumption: 25W

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Supplementary parameters:

1. Anode:
Rotating with velocity of 3000 rpm

2. Thermal characteristics:
a. Tube heat capacity: 150 kHU
b. Over temperature protection

3. Collimation system:
a. Multi-leaf
b. Manually controlled
c. With LED field lamp and crosshair centering.
d. Rotation: +/- 45º
e. With built-in retractable distance measuring device 2 meters

4. X-Ray Table:
a. Table to support patient weight of up to 180 kg.
b. Tabletop height: 650mm

5. Movable bucky assembly with grid:
a. Grid ratio: 10:1
b. Grid frequency: 27 lines/cm
c. Focal distance: 100 cm

6. Control Unit:
a. Microprocessor controlled with control system integrated
b. Password protected operation of the equipment
c. Radiation Exposure Hand Switch: 2- Phase (ready and expose) in dead-man type

7. Flat Panel Detector:
a. Geometrical fill factor ≥ 65%
b. Peak Detective Quantum (DQE) ≥ 65% at 0.05 lp/mm
c. Weight bearing capacity：≥100 kg.
d. Protection grade: IPX3

8. Image Acquisition:
(1).Image display monitor: 15 inch LCD, 3 megapixel resolution, anti-reflective screen with contrast and brightness adjustments and be capable of color and gray scale display of 10 bits.

(2).Imaging Software Capabilities
a. Software for patient ID entry, viewing, processing of image, storage, printing and documentation
b. Display of exposure indicators
c. Display of patient data and actual exposure technique factors used
d. Automatic recognition of detectors
e. Anatomical programs included.
f. Allows the pre-visualization of the image in less than 5s
g. Measured (not calculated) Patient Dose-Area Product (DAP)

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Supplementary parameters:

h. Image analysis tools (Distance Measurement, ROI, Exposure Index (DDI), Mean Pixel value, PVSD measurement, contrast adjustment, annotations, rotation, zoom, crop, grayscale inversion)

i. Image processing functionality (window/level adjustment, Reverse Contrast mapping, Edge Enhancement, Dynamic range Control)

j. Image reject folder

k. With the respective keys and software installer on CD/DVD/USB

l. Export of image files or explorations in JPG, TIF and BMP formats

(3). Interface capability: compliant with DICOM 3 and is capable of online (Wifi with PACS) and offline (computed radiography with workstation or film and darkroom) operation

(4). DICOM standard connectivity, compatible with radiological image viewing, post-processing, storage, verification, send/receive and printing software.

(5). Internal database storage of 2,000 images

9. Connectivity

a. One USB outlet for image storage on external media

b. Ethernet connection RJ45 for image transmission

c. DICOM standard connectivity, compatible with radiological image viewing, post-processing, storage and printing software (Functions: Storage, storage commitment, send/receive, print, modality worklist management, modality performed procedure step and verification)

d. The equipment can be connected by the supplier to the hospital PACS during the installation phase

High Quality Image：

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