

### HM-X-STATIONARY DR SINGLE



HM-X-STATIONARY DR Universal FPD DR is a combination of digital flat panel imaging and classical radiographic mechanical structure. The system fits for most common clinical applications of Radiography in both vertical and horizontal projections, as well as chest examinations, greatly enhance patient throughput.

Absolutely, your filmless workflow will be more convenient and faster than conventional radiographic process. Patients also benefit from low radiation and smooth-running procedures. In addition, the administration of your medical facility will appreciated HM-X-STATIONARY DR's streamlines cost-effective processes and high quality results.

HM-X-DR1000 is fully DICOM 3.0 compliance that means you can benefit from all relevant DICOM services, including DICOM worklist, image storage, transferring, printing and other applications that will significantly improve your workflow.

### 1. Configuration Standar Configuration

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Component	Quantity
High Frequency Generator	1
DR Flat Panel Detector	
4343RP	1
4343R	1
X-ray Tube Assembly	1
Radiographic Table	1
X-ray Tube Stand	1
Chest Bucky Stand	1
High-density Aluminum	2
Grid	
Collimator	1
HV cable	1
Image Acquisition System	1
Computer	
23"colorful LCD monitor	
Acquire v2.0	
Intercom System	1
Console	1
	High Frequency Generator DR Flat Panel Detector 4343RP 4343R X-ray Tube Assembly Radiographic Table X-ray Tube Stand Chest Bucky Stand High-density Aluminum Grid Collimator HV cable Image Acquisition System Computer 23"colorful LCD monitor Acquire v2.0

### Optional Configuration

No.	Component	Quantity
1	lon chamber Three fields	1
2	Flat Panel Detector *Replace the detector 4343R in standard configuration	1
3	Monochrome LCD Monitor *instead of the colorful LCD in standard configuration • 19" Monochrome LCD • Resolution: 1280×1024 • Gray scale: 1024	1

### 2. Technical Specification

Standard Configuration

Component	Specifications
High Frequency Generator	Power: 50kW Radiography kV: 40~ 150kV; mA Range: 25~ 630mA Exposure Time: 1ms~ 6.3s, mAs: 0.4mAs~ 630mAs AEC function, APR: 600 programs Power Supply: 380VAC±38V, three-phase, 50Hz/60Hz Power Capacity: 55kVA Internal Resistance of Power Supply ≤0.17Ω Resistance of Protective Grounding ≤4Ω
	Network Integration: By intelligent CAN-BUS communication system, generator control is integrated with image acquisition on a common platform. Display and control of parameters and status of generator is able to be done through generator console and image acquisition system paralleled Fault Detection and Diagnosis
FPD Detector	Receptor Type: a-Si Effective size: 430mm×430mm (17"×17") Weight: 5.5kg Pixel Matrix: 3028(h)×3028(v), Pixel size: 142um A/D converter: 14bit Spatial Resolution: no less than 3.6lp/mm Image construction time: 5s DQE: ≥70% MTF: ≥58% Ambient Temperature: -15°C ~ 55°C Data Transfer: Giga Ethernet Control Instruction Transfer: Giga Ethernet Calibration mode: Offset calibration, Gain calibration, error pixel calibration, line noise calibration internal trigger control mode, applicable to upgrade of conventional system

FPD Detector	Receptor Type: a-Si External Dimensions: 470mm×494mm×38mm Effective size: 17"×17" Weight: 6.5kg Pixel Matrix: 3k×3k, Pixel size: 142um A/D converter: 16bit Spatial Resolution: no less than 3.6lp/mm Image construction time: 5s DQE: ≥70% MTF: ≥58% Ambient Temperature: -15°C ~ 55°C Data Transfer: Giga Ethernet Control Instruction Transfer: Giga Ethernet
X-ray Tube Assembly	Focal Spot: 0.6mm/1.2mm Power: 22/54kW Anode Heat Capacity: 300kHU Target Angle: 12°
DR Mechanics	Radiographic Table Tabletop floating range longitudinal ≥800mm, transverse ≥270mm Bucky travel longitudinal ≥600mm attenuation equivalent < 1.2mmAl Weight capacity: 180kg X-ray Tube Stand: Longitudinal Travel: ≥2000mm Vertical Travel (tube focus to floor): 650mm~1840mm, motorized, auto-tracking to the vertical Bucky Tube Column Rotation: 0° ~±180° (lockable at 0° and every 90°) X-ray Tube Rotation Along Horizontal Arm: +120° ~-120° Chest Bucky Stand: Detector center to the floor: no more than 400mm Detector vertical travel range: 1350mm
Collimator	Projection Field (SID=650mm): Max.: 350mm×350mm; Min.:0mm×0mm Operation Mode: Manual
Grid	Size: 457mm×457mm; Grid density: 85 line/cm, Grid ratio: ≥10:1, f0: ≥100cm, Aluminum-based

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Image Acquisition System	Hardware configurations:
	CPU: Intel Core 2 Duo ≥3.3GHz
	Memory: 2GB, Hard Disk: ≥500GB, CD-ROM: DVD Burning
	System Interface: USB, Standard RS232, LPT, 100MB network Interface, DVI/VGA
	Monitor: 23" Colorful LCD Monitor, Resolution: 1920×1080
	OS: Windows 7
	Software: ACQUIRE
	Image Acquisition: Acquisition condition setting, mechanical position display, APR setting
	Enhance Filter: Algorithms are optimized according to different physiological structure of body parts and different diagnostic requirements and different clinical demands of doctors.
	Image processing: Window width/ level, Auto window width/ level setting, preview, preset Window width/ level, positive and negative image reversal; Image flipping,
	rotating, zooming, roaming; Image interpolation edge enhancement, restore original image annotation, Character/ number annotation image annotation, Tape
	measurement, area measurement, auto-sub-setting.
	Image Printing: DICOM Printing, Paper Printing, Manually current displayed Images Printing, One-key Printing of Annotated Images, various printing equipment
	compatibility, film format printing, Print Queue Control, Stop/ Start presetting.
	Personalized settings: screen layout, default settings, toolbar settings.
	Other functions: Users definable display layout; user definable query of patients and images, patient reservation function. High-speed transmission of no loss compressed
	images and online decompression
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### Optional Components:

Component	Specifications
lon Chamber	Three fields, Claymount or Vacutec Exposure time: 1ms~5s, kV: 40~150kV
	Exposure Dosage Range: 1~100uGy
FPD Detector	Receptor Type: a-Si / csl
	Size: 512mm×495mm×43mm
	Effective size: 430mm×439mm
	Pixel Matrix: 3008(h)×3072(v), Pixel size: 143um
	A/D converter: 14bit
	Spatial Resolution: 3.7lp/mm,
	Image construction time: 6s
	Ambient Temperature: -15°C~ 55°C
	DQE:≥70%, MTF: ≥36%
	Weight: 7.5kg
	Data Transfer: Giga Ethernet
	Control Instruction Transfer: Giga Ethernet
	Calibration mode: Offset calibration, Gain calibration, error pixel calibration

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### Optional Components:

FPD Detector	Receptor Type: a-Si Size: 494mm×494mm×38mm
	Effective size: 43cm×43cm (17"×17")
	Weight: 7.5kg
	Pixel Matrix: 3072(h)×3072(v), Pixel size: 139um
	A/D converter: 14bit
	Spatial Resolution: 3.6lp/mm,
	Image construction time: 6s
	Loading Time Range : 1ms-1s
	Ambient Temperature: -20°C~ 70°C
	DQE:≥70%, MTF: ≥60%
	Data Transfer: Giga Ethernet Control Instruction Transfer: Giga Ethernet
	Calibration mode: Offset calibration, Gain calibration, error pixel calibration
	Monitor: 19" Monochrome LCD Monitor
Medical LCD Monitor	Brightness (Max.) 1000 cd/m², Contrast: 900: 1
(Mono-color)	Picture angle: Level 170°, Vertical 170° (CR > 10); Dot Pitch: 0.294 mm
	Resolution: 1280×1024; Grey Scale 1024