

Perform-X Chest DR System

Flat Panel Detector	
Choice of technology	CsI or Gd ₂ O ₂ S (Amorphous Selenium/Amorphous Silicon substrate)
Pixel count	3072 x 3072 (9 MP)
Pixel pitch	139 to 143 µm
Active detector area	Approx. 430 x 430 mm (17" x 17")
Theoretical spatial resolution	Approx. 3.6 lp/mm
DQE @ 1 lp/mm resolution	Up to 0.6 (depending on type of flat panel type)
MTF @ 1 lp/mm resolution	Up to 0.6 (depending on type of flat panel type)
Energy range	40 to 150 kVp
Anti-scatter grids (2 included)	
Type and operation	Focused grid, stationary
Dimensions (active area)	At least 430 x 430 mm (17" x 17")
Grid resolution	215 lp/mm
Focal distance range	100 and 100 to 180 cm (40" to 72") across the two grids
AEC Detector (optional)	
Type	3-field ion chamber with built – in preamp
X-ray Generator (MS APEX HF Series)	
Frequency / operation	100 kHz high frequency
Power output	50-80 kW
kV range	40 to 150 kVp, all models
Max. mA @ 80 kV	400/500/630/800/1000 mA
mAs range	0.5 to 600 mAs
Exposure time	0.001 to 6 sec
Configuration	Single tube, radiographic mode
Anode rotation	Low speed or optional dual-speed (50 kW and up)
Dose area product recording	Available (manual entry or automatically through serial interface)
X-ray tube	
Default x-ray tube	0.6/1.2 mm focus, 18/50 kW, 300 kHU 12 degree target angle @ low speed
Additional makes & models	Wide range of Varian, Dunlee and Toshiba tubes are available
HV cable	10 m standard (longer cable pairs available)
Beam Limiting Device	
kV range	40 to 150 kVp, lead shielded
Operation	Manual square field multilayer
Illumination	Min. 160 lux (halogen bulb or LED type)
Imager coverage	430 x 430 mm (17" x 17") @ SID = 100 cm (40")
Acquisition Workstation	
Connectivity	DICOM 3.0 compatible
Generator control integration	Included
Standard modules	Dignostic viewer, worklist query, DICOM print, emergency

	patient workflow, customizable processing profiles, local image storage
Optional modules	Additional viewing stations, DICOM send, Patient CD, PACS server and more
Hardware	Dual core or better processor, 2GB RAM, 500GB or more hard disk storage, optical drive, all-in-one 19" touch screen operation
Optional hardware	Uninterrupted power supply Extra HDD storage and memory Medical grade diagnostic monitor
Certification	CE certified, FDA approved