

Universal Digital Radiographic System



PERFORM-X DIGITAL X-RAY SYSTEM with ceiling mounted tube support

Universal Digital Radiographic System

- Conventional system, full DR components
- Best-in-class image quality
- Flexible connectivity to PACS systems

PERFORM-X

*Universal Digital
Radiographic System*

Control-X Medical
<http://www.cxmed.net>



General description

The Perform-X Hi-Lo Digital Dual Panel Radiographic System from Control-X Medical represents a unique performance/price ratio in the industry, high level of quality, durability, great values and comfort in diagnostic x-ray imaging systems today. As a special package for the healthcare community, the Perform-X HI-LO Digital Systems represents an affordable choice with no compromises for the imaging specialist, allowing very fast workflow due to the latest digital technology both in hardware and software.

Main components and technical features

High Performance X-ray Generator

The Milestone HF X-ray generator delivers the highest performance and reliability in any radiographic environment. Choose from flexible output power configurations including single-phase stored energy version up to 80 kW of power, and interface options like AEC control, high speed starter, safety interlocks and more. Standard for the system is the MS PCX 650 HF STR is a 50 kW PC and microprocessor controlled three phase, single tube high frequency generator. Anatomically programmed with 256-1024 examinations. Rated at 150kV/250mA, 100kV/500mA, 80kV/600mA, 10mA-630mA. AEC electronics are optional. The generator is controlled with a touch-screen monitor.

High voltage range: 40-150 kV, exposure duration: 1 ms – 10 sec., possibility to work with more than one speed of intensifying screens, possibility to work in 2-points and 3-points technique modes, possibility to change focus spot size with one button push.



Take advantage of full integration with the digital acquisition system and unparalleled feature set for advanced applications. Service technicians are provided with easy to use configuration procedures with a very short learning curve.



Phoenix-22 elevating radiographic table

The Phoenix HI-LO radiographic table with its heavy-duty, but still graceful design offers a convenient vertical height adjustment, four-way effortless positioning and an extremely low table top filtration for best exposures. Standard high-speed Bucky operation. Elevating radiographic table with a four-way floating top. The table top travels 110 cm (44") longitudinally and 25 cm (9.5") horizontally with the table top detector distance of 6 cm (2.4"). Motorized vertical travel with 500 lbs (225kg) lifting capacity. Total travel of 30 cm (12"); 550 mm-850 mm table top height. Length of the table top: 220 cm (86 2/3"), width of the tabletop 81 cm.



CTM 200 Ceiling tube support

Ceiling stand for x-ray tube which improves functional qualities and reliability in an elegant and modern style. Manual movements and electromagnetic brakes in all positions. Rotation around vertical axis 360°, rotation around horizontal axis 360°.

FEATURES

Telescopic stand:

Number of elements that compose the telescope:

4 aluminium extruded profile

Vertical travel:

150/180 cm

Kind of movement:

manual

Kind of balancing:

by springs and counterweights

Braking:

electrical with permanent magnet



Universal Digital Radiographic System

Longitudinal rails

Rail Length: 440 cm
 Travel Range: 320 cm

Transversal bridge:

Rail Length: 300 cm
 Travel of transversal bridge: 200 cm
 Kind of movement/braking: manual/electromagnetic

Carriage:

Carriage travel on transversal bridge: 200 cm
 Kind of movement/braking: manual/electromagnetic

Tube arm support:

Angle of rotation around the telescope vertical axis: +200° -135° or +140° -205°
 Angular positions mechanically detected:
 Angle of rotation around the horizontal axis: +120° -200° or +210° -110°
 Angular position mechanically detected:
 Braking of rotation movements: electrical with permanent magnet

**WS99 Wall Stand**

Extended travel to the floor. Smooth and precise operation through the special bearing system of vertical carriage. Eye-catching design with the standard WS 99DL accessory kit and full column cover. Counter balanced for full-size 43 cm x 43 cm (17" x 17") digital panels with vertical electric locks. Extra trim weights, wall mounting cable box and cable house. Vertical travel of receptor: 149 cm. Freestanding version and tilting version available.

Max. height of panel center line 1800 mm
 Min. height of radiography wall 350 mm
 Electromagnetic brakes

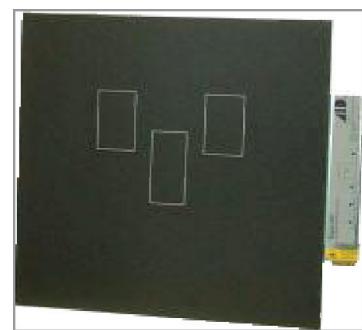
PERFORM-X

Universal Digital
Radiographic SystemControl-X Medical
<http://www.cxmed.net>

Quality Components and Accessories

The Perform-X system comes standard with industry standard highly compatible components and accessories. We use only the most reliable and most widely recognized X-ray tubes, high voltage cables and AEC detectors.

The system also includes two high density grids for perfect, scatter-free exposures – one for short SIDs and another for long source-image distances.



Features and Specifications

Flat Panel Detector

Choice of technology	CsI or Gd ₂ O ₂ S scintillator Amorphous Selenium / Amorphous silicon substrate
Pixel count	3072 x 3072 (9 MP)
Pixel pitch	139 to 143 um *
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

Universal Digital Radiographic System

AEC Detector (optional)

Type	3-field ion chamber with built.-in preamp
------	---

X-ray Generator (MS HF Series)

Frequency / operation	100 kHz high frequency
Power output	32 / 40 / 50 / 65 / 80 kW
kV range	40 to 150 kVp, all models
Max. mA @ 80 kV	400 / 500 / 600 / 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
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
Additional makes & models	Wide range of Varian, Dunlee and Toshiba tubes are available
HV cable	16 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 (bulb or LED type)
Imager coverage	430 x 430 mm (17" 17") @ SID = 100 cm (40")

Acquisition Workstation

Connectivity	DICOM 3.0 compatible
Generator control integration	Included
Standard modules	Diagnostic 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	<ul style="list-style-type: none"> • Uninterrupted power supply • Extra HDD storage and memory • Medical grade diagnostic monitor

Certification

CE certified, pending FDA approval



© 2010, Control-X Medical, Ltd. All rights reserved. The manufacturer reserves the right to change specifications and features without notice.

Control-X Medical, Ltd.

Fehérvári út 108-112

Budapest, H-1116, Hungary

Tel: +36-1-381-0301; Fax: +36-1-381-0303

PERFORM-X

Universal Digital
Radiographic SystemControl-X Medical
<http://www.cxmed.net>