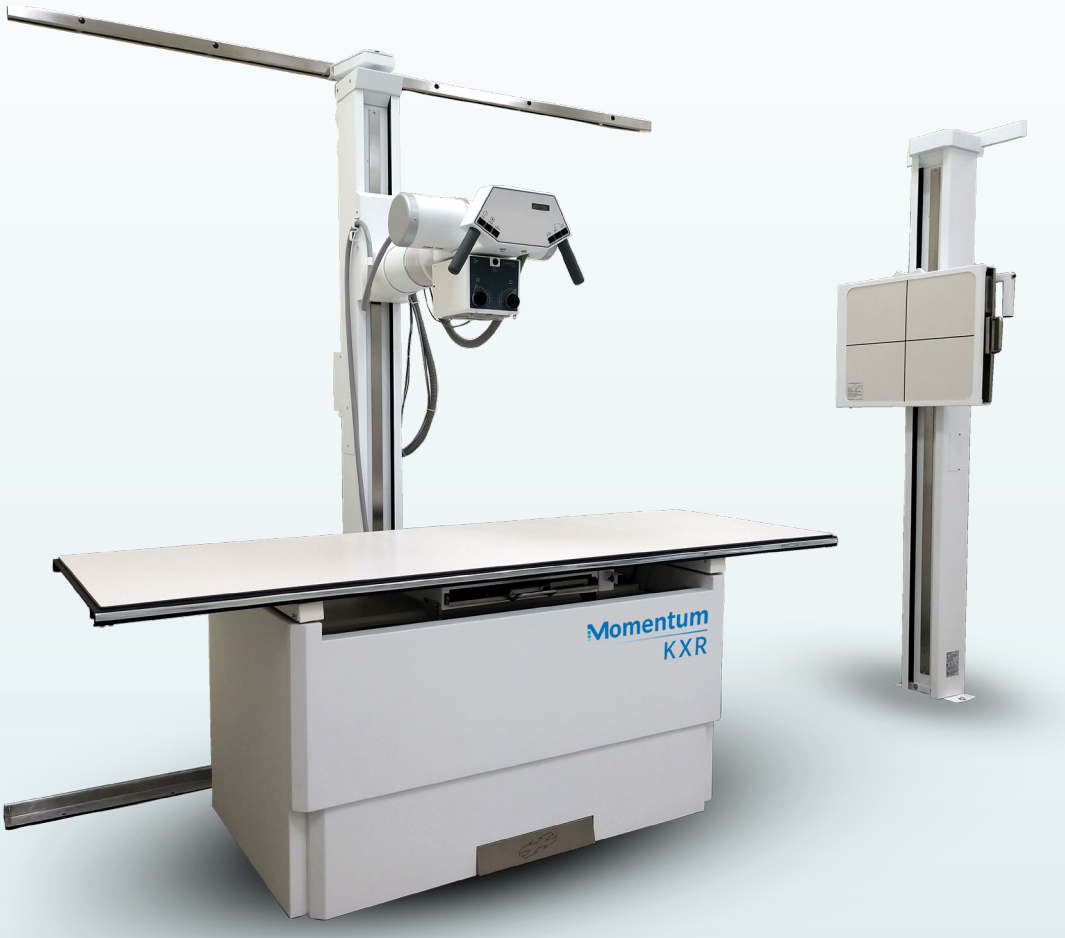
Digital Radiography Systems

Configurable | Technical Specifications

Momentum KXR

EFFICIENCY, VERSATILITY AND GREAT PERFORMANCE.

The MOMENTUM KXR Digital Radiography System is designed for easy operation, improved image quality and patient satisfaction.

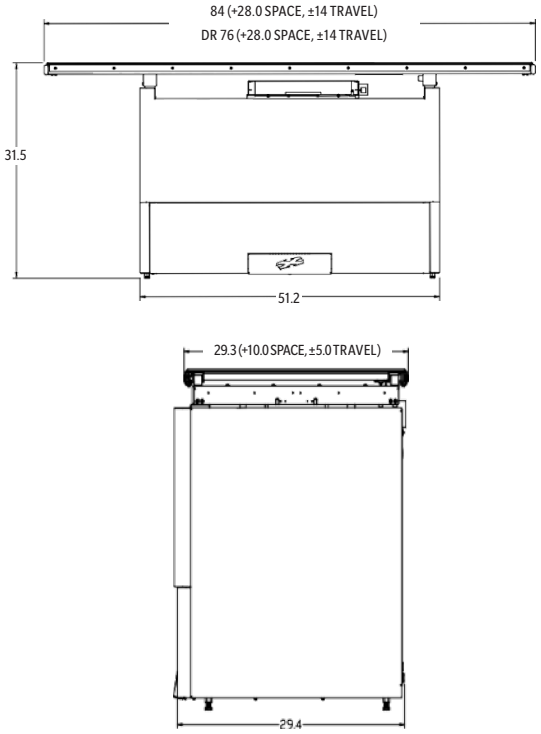


KONICA MINOLTA

DESIGNED FOR VERSATILITY.

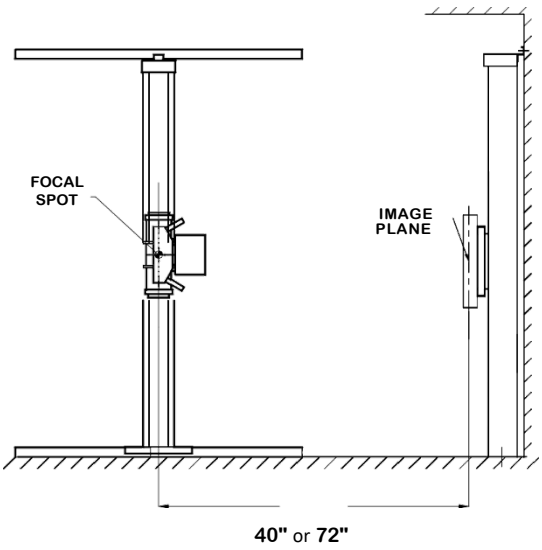
TABLE

FOUR-WAY FLOATING TABLE WITH FOOT CONTROL AND ELECTROMAGNETIC BREAKS	
Height	Table height 31.5 in (80 cm)
Dimensions	Standard Top: 84 in (213.3 cm)
Patient load	Maximum patient load 400 lbs (181.4 kg)
Cabinet	17-inch grid cabinet Grid: 10:1 ratio, 103 LPI Heavy Duty Cassette Tray
Table movements	Transversal: (10.0 ± 5.0 in) from the center Longitudinal: (28 ± 14 in) from the center
Optional lifting table	Height of the board above the ground: Max: 35 in (88.9 cm), Min: 25 in (63.5 cm)



TRANSVERSE ROTATING TUBE SUPPORT

FLOOR-TO-WALL OR FLOOR-TO-CEILING MOUNTING WITH ADJUSTABLE RAILS	
Longitudinal travel of focal spot	8 ft. (244 cm) rail: 75.7" (192.3 cm) 10 ft. (205 cm) rail: 99.7" (253.2 cm)
Transverse travel of focal spot	± 5" (12.7 cm) from detent position
Vertical travel of focal spot (focal spot to floor)	76.8" (195.1 cm) max, Platform, (Beam Vertical) 76.4" – 76.9" (194.1 - 195.3 cm) max, Trunnion (Beam Vertical)
Angulation	360°
Column rotation	360° (where installation permits)
Components	Angulation dial, operator handles and electric locks



Component specifications are subject to change due to technology upgrades.

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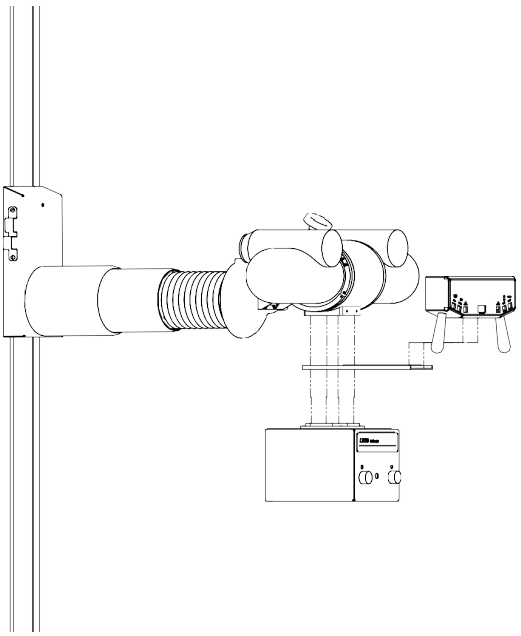
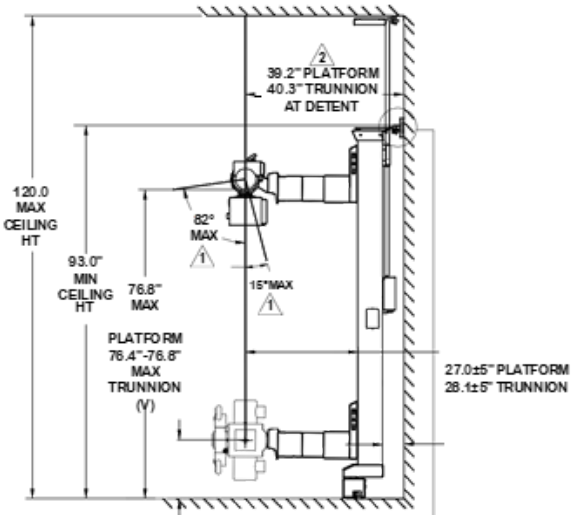
X-RAY TUBE

HIGH SPEED ROTATING ANODE X-RAY TUBE	
Maximum tube voltage	150 kV
Anode angle	12 degrees
Weight (approx.)	39.7 lb (18 kg)
Nominal continuous input power	120 W (169 HU/s)



THERMAL CHARACTERISTICS	
Anode heat content	210 kJ (300 kHU)
X-ray tube assembly heat content	900 kJ (1250 kHU)
Nominal continuous input power (without air-circulator)	200 W (16 kHU/min)



FOCAL POINTS		
Generator of:	**30 kW and 32 kW**	1.0 – 2.0 mm focal spots, 140,000 heat units
	40 kW and 42 kW	0.6-1.5 mm focal spots, 200,000 heat units
	50 kW and 52 kW	0.6-1.2 mm focal spots, 300,000 heat units

Component specifications are subject to change due to technology upgrades.

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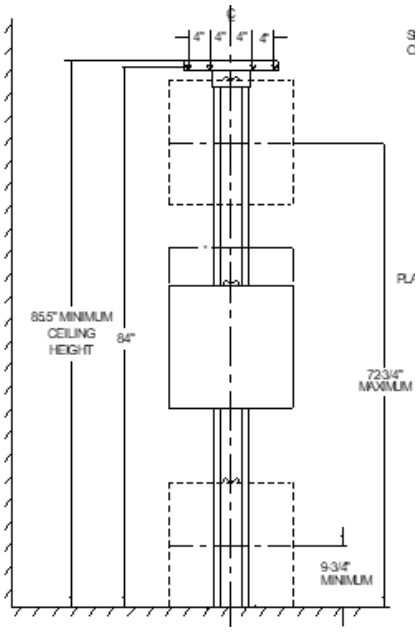
COLLIMATOR

Type	Multilayer, square field, manual collimation system with a lightweight and compact design
Movements	Brass shutters located near the exit window of the X-ray beam from the collimator
Ilumination system	High luminosity provided by a White LED simulating the X-ray field. The light field is controlled by an electronic timer
Power Supply	24 V AC/DC - 2 A
Mounting Plane	at 80 mm (3.15") from the focus
Continuous film coverage from Min: 00 x 00 cm to Max	48 x 48 cm at 100 cm (40") SID
Maximum Radiation Leakage	150 kVp - 4 mA
Cross laser alignment to receiver tray	
Retractable Tape mounted on the radiological unit, measures the distance between the focus and the patient	

WALL MOUNT

Maximum safe working load	50 lb. (22.5 kg)
Column	Counterbalanced column, mounted from floor to wall
Tray	Heavy-duty cassette tray. Travels from floor 76"
Grid	Grid cabinet, 17" x 17" (43.2 cm x 43.2 cm)
Load	Maximum patient load 400 lb (181.4 kg)
Grid	Grid: 10:1 ratio, 103 manual LPI, according to configuration
ELECTRIC LOCK ASSEMBLY (TWO LOCKS)	
Electrical Requirement	24 VDC, 2 AMP



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GENERATOR

Generator Power	32 kW	40 kW	40 kW	40 kW	40 kW	50 kW
Power supply system	Single-phase			Three-phase		
Maximum Voltage (kVp)	125 kVp, 400mA	125 kVp	125 kVp, 500 mA	125 kVp, 400 mA	125 kVp, 500 mA	125 kVp, 400 mA
Maximum Tube Current (mA)	630 mAs low/ high speed	Capacitors discharge	630 mAs low/high speed			
X-ray tube	Tube & Hand switch	Tube, low speed starter	Tube & Hand switch			
Maximum resistance	230 VAC	220/240 VAC	208/230 VAC (208 lines requires boost transformer 230V)	208 VAC	400 VAC	
Automatic exposure control	Automatic exposure control (AEC)	Automatic exposure control (AEC)	Automatic exposure control (AEC) adaptation	Automatic exposure control (AEC) adaptation	Automatic exposure control (AEC) adaptation	Automatic exposure control (AEC) adaptation
Generator control console	Interface for generator for digital systems with integrated console			Interface for generator for digital systems with integrated console		
kV maximum and minimum	40 kVp to 125 kVp					
mA maximum and minimum	0.1mA to 400mA	0.1mA to 500mA				0.1mA to 640mA
mAs maximum and minimum	0.1mAs to 640					
Storage/ Transport Environmental Conditions	Temperature range of 10°C to 70°C Relative Humidity range of 5% to 95% Atmospheric Pressure range of 500 hPa to 1060 hPa					
Relative Humidity range of 5% to 95%	Temperature range of 10°C to 40°C Relative Humidity (no condensing) range of 30% to 75% Atmospheric Pressure range of 700 hPa to 1060 hPa					

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UNIVERSAL DR

The cesium iodide (CSi) detector, in conjunction with **ULTRA** acquisition software, delivers exceptional image quality and the right combination of advanced features in simplified software for all general radiography applications.

SPECIFICATIONS *

Model	17x17V (CsI) (Cesium Iodide)
Automatic X-ray detection option	AED
Image sensor	a-Si (Amorphous Silicon) TFT
Pixel size	139 µm
Grayscale	16 bit
Matrix	3072 x 3072
Active area (H x V)	427 mm x 427 mm
Spatial resolution	3.6 Lp/mm
Image acquisition time (wireless) **Both AP Mode and Client Mode**	Aquisition time preview: 3 s Aquisition time processed: 5 s
Cycle time	Min. 8 s
Power consumption	Max. 20 W
Dimensions (L × W × H)	460 x 460 x 15.4 mm
Weight (with one battery)	4.6 kg /10.14 lbs
Image transfer	Wireless: IEEE802.11a/b/g/n/ac
Battery type	Lithium-ion battery
Full battery charge time	>3.5 hours
Battery dimensions (L × W × H)/weight	210 x 115 x 7.5 mm/0.28 kg
Battery charger	1 battery per pack
Charger dimensions (L × W × H)/weight	240 x 184 x 38 mm/0.55 kg

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ULTRA ACQUISITION SOFTWARE.

ULTRA acquisition software combines powerful image processing capabilities with a simplified user interface designed specifically for advanced X-ray systems. ULTRA delivers the speed, efficiency and clinical value you expect from a world leader in medical imaging, Konica Minolta.

ULTRA acquisition software was designed specifically for technologists to improve workflow by managing exams on one screen. This eliminates the need to move between multiple screens for editing allowing more time to focus on patient care.

SOFTWARE FEATURES*

- DICOM compliant connectivity with RIS/PACS
- Procedure code mapping tool
- Study annexes
- Free text annotation
- Automatic masking
- Study List Filter
- History, Image Zoom
- Grid suppression
- HIPAA Compliance Enablement (protection of password, screen lock)
- Foldering (merging and moving studies)
- DICOM Store, worklist
- Modality DICOM Pediatric Images

GENERAL HARDWARE CHARACTERISTICS*

Workstation (24" Touch Monitor, CPU, Mouse, and software)

Hardware specifications available at configuration definition.

Blue Moon Lifecyle Plans for X-ray Systems. Do More. Worry Less.

Konica Minolta Healthcare is a world-class provider and market leader in medical diagnostic imaging, healthcare information technology and white glove service innovations. While competitor's service offerings are focused on reactionary service support, Konica Minolta has created an array of value-rich service solutions that are focused on helping our customers maximize their investments every day and responding immediately – or even ahead of time – to critical issues.

BLUE MOON
LIFECYCLE PRODUCTS

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For more information about these products,
please contact your Konica Minolta Sales Representative
or visit healthcare.konicaminolta.us

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